

TUESDAY BREAK-OUT SESSION SCHEDULE

SESSION C (TUESDAY) 9:30am - 11:00am								
SESSION NAME	TRACK / TOPIC	SESSION CHAIR	ROOM	CHAIR PERSON	SPEAKERS	PAPER #	TITLE	TIME
C1	Strategies, Tools, Simulation Methods		Crystal	Kyle Konis				
					Farzam, Kodama	1018	Design Process of Integrated Shading Systems in Schools	9:30 AM - 9:45 AM
					Haav, Bourmas, Angerani	1285	Bi-objective Optimization of Fenestration Using an Evolutionary Algorithm Approach	9:45 AM - 10:00 AM
					Caldas, Santos	1412	Painting with Light: A Generative Design System for Daylighting Design	10:00 AM - 10:15 AM
					Etman, Keena, Diniz, Rempel, Dyson	1408	New Parametric Framework Motivating Environmental Conscious Design	10:15 AM - 10:30 AM
					Ha, Tablada	1097	Numerical Study of Wind-Induced Building Ventilation Potentials with Various Orthogonal Breezeway Network Patterns	10:30 AM - 10:45 AM
					Castillo Torres, Cruz Salas, Huelsz	1517	Windexchangers in a Building with a Window to Windward or to Leeward: Design Guidelines	10:45 AM - 11:00 AM
C2	Strategies, Tools, Simulation Methods		Tiffany	Sergio Altomonte				
					Jones, Reinhart	1121	Real-Time Visual Comfort Feedback for Architectural Design	9:30 AM - 9:45 AM
					Jakubiec, Inanici, Van Den, Mahic	1340	Improving the Accuracy of Measurements in Daylit Interior Scenes Using High Dynamic Range Photography	9:45 AM - 10:00 AM
					Jakubiec	1350	Building a Database of Opaque Materials for Lighting Simulation	10:00 AM - 10:15 AM
					Inanici, Liu	1379	Robust Sky Modelling Practices in Daylight Simulations	10:15 AM - 10:30 AM
					Deng, Shiller, Noble, Konis	1444	Exterior Glare Simulation: Understanding Solar Convergence from Concave Facades Using Heat Maps	10:30 AM - 10:45 AM
					Fan, Kensek, Choi, Schiler	1476	Visualizing Thermal Data in a Building Information Model	10:45 AM - 11:00 AM
C3	Strategies, Tools, Simulation Methods		Roman	Holly Samuelson				
					Peronato, Bonjour, Stoeckli, Rey, Andersen	1048	Sensitivity of Calculated Solar Irradiation to the Level of Detail: Insights from the Simulation of Four Sample Buildings in Urban Areas	9:30 AM - 9:45 AM
					Kotbi, Armpatzi	1188	Using Solar Screens in School Classrooms in Hot Arid Areas: The Effect of Different Performance Rates on Daylighting Levels	9:45 AM - 10:00 AM
					Lin, Suk, Chiu	1190	Tensile Membrane Façade: Definition of Optical Properties in Daylighting Simulation and its Performance Impact	10:00 AM - 10:15 AM
					Chiou, Lin	1195	A Portable Testbed for Integrative Daylighting Design	10:15 AM - 10:30 AM
					Jing, Yannas	1207	Retrofitting of Glazed Balconies for Residential Buildings in Zhengzhou, China	10:30 AM - 10:45 AM
					Guzowski	1068	Piano Pavilion at the Kimbell Art Museum: Daylight Strategies and Methods	10:45 AM - 11:00 AM
C4	Passive Strategies for Resilient Cities		Corinthian	Gunnar Hand				
					Toledo	1524	Unintended Consequences of Sustainable Architecture: Evaluating Overheating Risks in New Dwellings	9:30 AM - 9:45 AM
					Agrawal, Mirajkar, Singh	1098	Vaastushastra: A Guide to Sustainable Building and Settlement Design	9:45 AM - 10:00 AM
					Grosdemouge, Garde	1160	Passive Design in Tropical Climate: Key Strategies Implemented in a French Certified Sustainable Neighbourhood	10:00 AM - 10:15 AM
					Pineda, Vélez, Marín Restrepo	1193	Impact of Passive Design Strategies on Air Conditioning Efficiency and its Relation with the new Colombian Standard of Sustainable Construction	10:15 AM - 10:30 AM
					Kinnane	1321	Regulation, Retrofit and the Changing Face of Irish Housing	10:30 AM - 10:45 AM
					Rahman, Ahmed	1347	Building Regulation as a Tool for Creating Desirable Urban Microclimate: Case Study in Dhaka	10:45 AM - 11:00 AM
C5	Carbon Neutral Design		Cordoban	Rajat Gupta				
					Kessling, Engelhardt, Kishnani	1058	Developing the Net Zero Energy Design for the School of Design and Environment of the National University of Singapore	9:30 AM - 9:45 AM
					DeKay, Giddings	1062	The Energy Balance Index: Extending the 2030 Targets to Plus-energy Buildings	9:45 AM - 10:00 AM
					Mlecnik	1118	Goodbye Passive House, Hello Energy Flexible Building?	10:00 AM - 10:15 AM
					Yeom, La Roche	1521	Experimental Research on the Cooling Performance of Green Roof with Radiant Cooling System	10:15 AM - 10:30 AM
					Phillips, Rempel, Dyson	1303	A Solar Thermal Diurnal Cooling Strategy for Net-Zero Energy Buildings	10:30 AM - 10:45 AM
					Heine, Albright, Harding, Pastre, Blouin	1359	Sim[PLY]: Achieving Carbon Neutrality Through Innovative Building Assemblies and Processes	10:45 AM - 11:00 AM
C6	Sustainable Design Education		Athenian	Yezioro Abraham				
					Lufkin, Rey	1115	Green Density, Interdisciplinary Education and Research Project for the Design of Sustainable Neighborhoods	9:30 AM - 9:45 AM
					Romano, Bologna, Gallo, Calcagno	1201	Living the Informal City. Sustainable Design Education in Risk Areas	9:45 AM - 10:00 AM
					Gong, Liu, Ng	1316	Exploring Associations between Green Space Accessibility and Physical Activity of Elderly in High Density Cities: A Case Study of Hong Kong	10:00 AM - 10:15 AM
					Wheeler, Rajan	1404	The Educational Value of Masdar as an Exemplar Sustainable City	10:15 AM - 10:30 AM
					Duarte, Monteiro	1451	Architecture, Urban Design, Planning and Urban Climate Interdisciplinary Collaboration Experiences Teaching and Research	10:30 AM - 10:45 AM
					Haglund, Payne	1229	A Green Cities Checklist: A Subjective Rating Rubric	10:45 AM - 11:00 AM
C7	Regenerative Design		Mediterranean	Ulrike Passe				
					Gobbo, Trachte	1075	Building as Material Deposit: Material Balances and "Recoverability" into Retrofitting Processes	9:30 AM - 9:45 AM
					Montoliu-Hernández, Rodríguez-Álvarez	1124	Crisis Architecture: Colonising Unfinished Residential Structures	9:45 AM - 10:00 AM
					Huang, Hao, Du, Zhang	1132	Two Experimental Projects with Recycling of Demolished Building Materials	10:00 AM - 10:15 AM
					Thiebat, Veglia, Porceddu	1198	Sustainability Strategies for the Reuse of Dismissed Industrial Architecture	10:15 AM - 10:30 AM
					Negrete, Vazquez	1302	Construction with Recycled Materials: Study Case, Emergency Shelter	10:30 AM - 10:45 AM
					Lokko, Dyson, Rempel, Rowell	1395	Development of Affordable Building Materials Using Agricultural Waste By-Products and Emerging Pith, Soy and Mycelium Biobinders	10:45 AM - 11:00 AM
SESSION D (TUESDAY) 11:30am - 1:00pm								
SESSION NAME	TRACK / TOPIC	SESSION CHAIR	ROOM	CAPACITY	SPEAKERS	PAPER #	TITLE	TIME
D1	Strategies, Tools, Simulation Methods		Crystal	Troy Peters				
					Kayo, Hasan, Marinac, Lahdelma	1147	Optimal Planning Tools for Carbon Neutral Neighborhoods by Integrating Existing Buildings Stocks	11:30 AM - 11:45 AM
					Ismaeel, El Sayed, Inji Kenawy	1313	Using GIS as a Decision Making Support Tool for LEED Credits	11:45 AM - 12:00 PM
					Law, Wong, Ridley	1314	Calibration of a Building Model Using the Co-Heating Test	12:00 PM - 12:15 PM

				Alshaali, Alshaali	1371	When Form Follows Wind: A Natural Ventilation Information Tool for Architects	12:15 PM - 12:30 PM
				Jusselme, Cozza, Hoxha, Brambilla, Evequoz, Lalanne, Rey, Andersen	1105	Towards a Pre-Design Method for Low Carbon Architectural Strategies	12:30 PM - 12:45 PM
				Hoxha, Jusselme, Brambilla, Cozza, Andersen, Rey	1131	Impact Targets as Guidelines towards Low Carbon Buildings: A Preliminary Concept	12:45 PM - 1:00 PM
D2	Strategies, Tools, Simulation Methods		Tiffany	Claude Demers			
				Caglar, Demers, Potvin	1240	The Generation of Adaptive Structures for Daylighting Performance: DARMIN as a tool in the design of dynamic architectural environments	11:30 AM - 11:45 AM
				Drosou, Brembila, Mardaljevic, Haines	1248	Reality Bites: Measuring Actual Daylighting Performance in Classrooms	11:45 AM - 12:00 PM
				Wagdy, Fathy, Altomonte	1295	Evaluating the Daylighting Performance of Dynamic Façades by Using New Annual Climate-Based Metrics	12:00 PM - 12:15 PM
				Kawai, Lau	1481	Light on Chichu Art Museum, Lee Ufan Museum and Daylight Museum	12:15 PM - 12:30 PM
				Kawai, Lau	1483	The Daylighting Performance of Azuma House and 4 x 4 House Design by Tadao Ando	12:30 PM - 12:45 PM
				García-Chávez, García	1519	Characterization of Anidolic Systems for Improving Natural Light and Achieving Energy Savings in School Buildings	12:45 PM - 1:00 PM
D3	Strategies, Tools, Simulation Methods		Roman	Barbara Widera			
				Hossain, Lau, Wilson, Ford	1226	Improving Thermal Performance of Workspaces: Ventilation Design Strategies for Existing Garment Factories in Bangladesh	11:30 AM - 11:45 AM
				Wang, Liu	1235	An Overview Survey and Evaluation of Households' Indoor Thermal Environment in Different Climate Zones of China	11:45 AM - 12:00 PM
				Hamza, Qian	1278	Validating the Performance of a Double Skin Façade in Winter in a Hot Arid Context	12:00 PM - 12:15 PM
				Meliani, Attia, Teller	1286	Architectural and Environmental Housing Typology Analysis in Huamachuco	12:15 PM - 12:30 PM
				Vargas Soto, Saelzer Fuica	1383	Parametric Study of Thermal Comfort and Energy Performance of Naturally Ventilated Classrooms in the Tropic of Costa Rica	12:30 PM - 12:45 PM
				Elzeyadi, Abboushi, Hadipour, Rivera	1502	High Performance Façades: Passive Solar Façades, Thermal Comfort and Climate Change: Predictive Modelling with Near and Distant Weather Patterns	12:45 PM - 1:00 PM
D4	Passive Strategies for Resilient Cities		Corinthian	David Mwale Ogolli			
				González Couret, Sánchez Martínez	1023	Towards a More Resilient Urban Morphology in Havana	11:30 AM - 11:45 AM
				Chatzidimitriou	1267	Street Canyon Geometry and Microclimate: A Monitoring Study in Northern Greece	11:45 AM - 12:00 PM
				Bakarman, Chang	1462	The Effect of Urban Geometry on The Formation of Urban Heat Island in Hot-Arid Climates: A Case Study of Riyadh, Saudi Arabia	12:00 PM - 12:15 PM
				Samira, Sallha, Sigrid	1331	Thermal and Visual Comfort under Different Trees Cover in Urban Spaces at Constantine City Centre -Hot-dry Climate-	12:15 PM - 12:30 PM
				De Rosso, Cadima	1401	Pocket Parks in São Paulo: The Potential for the Implementation	12:30 PM - 12:45 PM
				Fahmy, Elwy	1508	Visual and Thermal Comfort Optimization for Arid Urban Spaces using Parametric Techniques on the Scale of Compactness Degree	12:45 PM - 1:00 PM
D5	Carbon Neutral Design		Cordoban	Alex Rempel			
				Lyles, Higgins, Miller	1467	The Role of Building Controls in Zero Net Energy Buildings: Characteristics, Energy Impacts and Lessons	11:30 AM - 11:45 AM
				Rudolph, Knebel, Reisi	1530	Monitoring and Evaluating the Performance of Net-Zero-Energy Building in Oman	11:45 AM - 12:00 PM
				Santucci, Voukia, Voukia	1236	Embodied Energy as a Key for Designing Low Carbon Schools	12:00 PM - 12:15 PM
				Droulles, Rey, Lufkin	1110	Peripheral Residential Developments in Switzerland: Facing Carbon Neutrality Challenge	12:15 PM - 12:30 PM
				Kolody, Capeluto	1181	Towards Near Zero-Energy Neighbourhoods in High Density Conditions	12:30 PM - 12:45 PM
				Jones, Li, Patterson, Coma, Lannon	1099	Preparation for an Energy Positive Community in the UK: Modelling-led Innovative Housing Practice in Wales	12:45 PM - 1:00 PM
D6	Sustainable Design Education		Athenian	Susan Roaf			
				Patidar, Khan, Raghuvanshi	1158	Sustainable Design Education through Vernacular Architecture: A Case Study of Chandernagore Region, Madhya Pradesh, India	11:30 AM - 11:45 AM
				Iyer-Raniga	1177	Low Carbon Developments in Practice: A Cross Border Experience	11:45 AM - 12:00 PM
				Saroglou, Meir, Theodosiou	1184	Can a Skyscraper have a Low Environmental Impact? Simulating Energy Consumption for a 100m, 200m and 400m Tall Residential Tower	12:00 PM - 12:15 PM
				Rossi	1189	Learning Sustainability by Designing High Quality, Low Cost, Energy Efficient Social Housing in Munich	12:15 PM - 12:30 PM
				Gazda, Buccellato	1206	Case Studies to Understand the Impact of Local Materials on Embodied Energy	12:30 PM - 12:45 PM
				Haglund, Ferry, Garr, Grundler, Haderlie, McColly, O'Brien, Waddoups	1225	The Pitkin Nursery Classroom Building: Simulation and Post-Occupancy Evaluation	12:45 PM - 1:00 PM
D7	Regenerative Design		Mediterranean	Vincent Buhagiar			
				Clua Longas, Lufkin, Rey	1096	Towards a New Prospective Basis for the Design Strategies of Active Façades	11:30 AM - 11:45 AM
				Bohm, Heckman	1122	Growing Smarter: Broadening Frameworks for Residential Energy Design	11:45 AM - 12:00 PM
				Ahimisbwe, Ndirwami	1127	Demystifying the Fired Clay Brick	12:00 PM - 12:15 PM
				Wegetseder, Alvarado	1202	Solar Attic Map: On-line Divulgarion of Single-houses' Extensions with Integrated Solar Panels	12:15 PM - 12:30 PM
				Amindeldar, Garrison, Lang, Liedl, Pyrek	1400	Towards Regenerative Design by Responsible Energy-Water Design: Nexushaus as a Successful Case Study in Solar Decathlon 2015	12:30 PM - 12:45 PM
				Burpee, Meek, Douglas	1409	Health in the Built Environment: Testing Health Impacts of Green Buildings	12:45 PM - 1:00 PM
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SESSION E (TUESDAY) 3:30pm - 5:15pm							
SESSION NAME	TRACK / TOPIC	ROOM	CHAIR PERSON	SPEAKERS	PAPER #	TITLE	TIME
E1	Strategies, Tools, Simulation Methods		Crystal	Jose Roberto Garcia-Chávez			
				Banerjee, Sen, Chattopadhyay	1339	A Comparative Study on the Effects of Urban Morphology on the Urban Heat Island Profile in Residential Neighbourhoods: A Case of Kolkata, India	3:30 PM - 3:45 PM
				Habib, Sharples	1343	Analyzing Urban Microclimate Air Temperature Measurements Using a Novel Parameter - The Partial Sky View Factor	3:45 PM - 4:00 PM
				Fernández-Expósito, Esquivias, Moreno	1370	Urban strategies to improve building façade daylight exposure	4:00 PM - 4:15 PM
				Batungbakal	1386	The Influence of Increased Green Space in Reducing Surface Temperature in Cities: Three Design Alternatives for Downtown Las Vegas' Vision in Addressing Urbanization and the Urban Heat Island Effect	4:15 PM - 4:30 PM
				Prata-Shinomura, Ferreira, Ferreira	1413	Local Climate Zone and the Definition of Roughness Classes for Wind Analysis of Cities	4:30 PM - 4:45 PM
				Gusson, Duarte	1416	The Effect of Density on Urban Microclimate - Simulation of Different Building Typologies for the Subtropical Sao Paulo, Brazil	4:45 PM - 5:00 PM
				Lai, Maing, Ng	1312	Modeling the Urban Radiant Fluxes Using View Factors	5:00 PM - 5:15 PM
E2	Strategies, Tools, Simulation Methods		Tiffany	Alfredo Fernandez			
				Haj Hussein, Barlet, Baba, Semidor	1526	Evaluation for Environmental Comfort Performance in the Palestinian Schools	3:30 PM - 3:45 PM
				Liu, Mo, Zhang, Zhao, Wang	1219	Evaluation of Household Air Condition Use and Energy Consumption	3:45 PM - 4:00 PM
				Al-Hassawi	1317	Downdraft Evaporative Cooling Towers: Evaluating Two Sizing Procedures	4:00 PM - 4:15 PM
				Linghu, Lau	1326	Architectural and Environmental Delight in Traditional and Contemporary Courtyard House in Beijing	4:15 PM - 4:30 PM

				Andrade, Matheus, Labaki, Castro	1373	Proposal for Use of Wind Catcher in the Classroom University	4:30 PM - 4:45 PM
				Lavalpour, Sharples	1376	The Potential of Inclined Walls to Reduce Overheating Risk	4:45 PM - 5:00 PM
				Eyas, Bensen	1166	Spatial and Environmental Delight in Louis I Khans Residential Building	5:00 PM - 5:15 PM
E3	Strategies, Tools, Simulation Methods	Roman	Paula Cadima				
				Najaf Khosravi, Saadatjoo, Mahdavinejad, Amineldar	1136	The Effect of Roof details on Natural Ventilation Efficiency in Isolated Single Buildings	3:30 PM - 3:45 PM
				Mediniha, Labaki	1288	Let's Open These Windows! The Influence of Opening Design Parameters on Natural Ventilation.	3:45 PM - 4:00 PM
				Landsman, Brager	1307	Performance, Prediction and Optimization of Night Ventilation across Different Climates	4:00 PM - 4:15 PM
				Kim	1392	Uncertainty Conscious Indoor Airflow Maps for Occupant Control With Two-Dimensional Computational Fluid Dynamics	4:15 PM - 4:30 PM
				Tarwi Dhar, Ihab Elzeyadi	1511	Comparing LEED(TM) Certified and Conventional Schools in Houston, Texas, USA: Environmental Performance and Indoor Comfort	4:30 PM - 4:45 PM
				Tubelo, Rodrigues, Gillott	1081	Building Envelope Optimisation for Brazilian Mass Housing	4:45 PM - 5:00 PM
				Lai, Maing, Ng	1311	Feasibility Study on Using Sunlit View Factor to Model Outdoor Thermal Comfort: A Case Study in Sha Tin, Hong Kong	5:00 PM - 5:15 PM
E4	Passive Strategies for Resilient Cities	Corinthian	Kurt Eriksen				
				Yuan, Liu, Wang, Hou	1126	Research and Practice: The Performance Optimization for Container Building	3:30 PM - 3:45 PM
				Moghaddam, Ozkan, Summers, Farhoudi	1165	Refurbishing for Thermal Comfort: The Rehabilitation of an Abandoned Village School Building	3:45 PM - 4:00 PM
				Esparza-López, Gomez-Amador, Escobar, Elizondo, Gomez-Azpetia	1243	Experimental Analysis of a Humid Fiber as an Indirect Evaporative Cooling Device Against Roofpond and Gunny Bags in a Hot Sub-humid Climate	4:00 PM - 4:15 PM
				Finocchiario, Xiuzhang	1414	Environmental Performance Optimization of a Historical Courtyard House and the Revitalization of the Houji Village.	4:15 PM - 4:30 PM
				Palme, Lobato, Carrasco	1041	Global Warming and Urban Heat Island in South-America: Estimating the impact on the Thermal Demand of Residential Buildings in the Pacific Coastal Cities by Simulations Studies in Chile, Peru and Ecuador.	4:30 PM - 4:45 PM
				Abdulla, Rodrigues	1135	The Effect of Shading, Infiltration and Ventilation Levels on Overheating and Heating Demands in UK Residential Buildings. Case study: Trent Basin Regeneration	4:45 PM - 5:00 PM
E5	Passive Strategies for Resilient Cities	Cordoban	Nikolaus Knebel				
				Bhwapurkar	1520	Bioclimatic Design and Urban Microclimate	3:30 PM - 3:45 PM
				Grigoletti, Lazarotto	1034	Occupation of Urban Land and Nocturnal Urban Microclimates: Santa Maria - Brazil	3:45 PM - 4:00 PM
				Martin-Consuegra, Hernandez Aja, Oteiza, Alonso	1109	Energy Needs and Vulnerability Estimation at an Urban Scale for Residential Neighbourhoods in Madrid (Spain)	4:00 PM - 4:15 PM
				Tuli, Ahmed	1358	Study on the Impact of Microclimate on Energy Spatialization in Urban Areas	4:15 PM - 4:30 PM
				Antonelli, Kwok	1318	Water-Smart Urban Design: Conserving Potential in Swimming Pools	4:30 PM - 4:45 PM
				Rodrigues, Marsh, Kiamba, Gillott, O'Doherty	1042	The Case for Localised Energy Management to Support Resilient Cities	4:45 PM - 5:00 PM
E6	Sustainable Design Education	Athenian	Maureen Trebilcock				
				Weng, Ramallo-González, Coley	1471	Room a Web-based Interactive Educational Tool for Learning Building Physics	3:30 PM - 3:45 PM
				Treacy	1204	Exploring Daylight: Using Applications-based Devices in Environmental Design Education	3:45 PM - 4:00 PM
				Rodriguez, Penaranda	1213	Inhabiting the Eneal. Teaching Approach of a Passive Cooling and Zero Carbon Buildings in na Extreme Hot Humid Climate. Studio Cases: Sinamaica Lagoon, Venezuela	4:00 PM - 4:15 PM
				Boukadoum, Abdou	1323	Evaluation of Acoustic Comfort in the Classrooms	4:15 PM - 4:30 PM
				Li, Lau	1354	Structural Aesthetics and Light and Thermal Environmental of the Exposition Architecture Designed by Pier Luigi Nervi in Turin: Case Study: Palazzo Delle Esposizioni and Palazzo Del Lavoro	4:30 PM - 4:45 PM
				Mostofa, Lau	1374	Louis I. Kahn's Climate Responsive Strategies in the Tropics: A Case Study on National Parliament Building, Bangladesh	4:45 PM - 5:00 PM
E7	Regenerative Design	Mediterranean	Luisa Brotas				
				Buhagiar	1239	Retrofitting Existing Apartments for Energy Efficiency: Rendering Comfort Affordable for Social Housing	3:30 PM - 3:45 PM
				Drori, Yezioro, Shaviv	1171	A Design Tool for Green Regeneration of Residential Neighbourhoods - Green Facades	3:45 PM - 4:00 PM
				Gómez, Gonzalez	1289	Architecture and Public Health in Low-income Residential Sector	4:00 PM - 4:15 PM
				García-Chávez, Hernández, García	1463	Bioclimatic Strategies to Improve the Environmental Quality and Patients Health in an Adult Day Care Center	4:15 PM - 4:30 PM
				Hummel, Raines, Shaul, Gorrissen, Miller	1472	Promoting Regenerative Built Environment Lifecycles	4:30 PM - 4:45 PM
							4:45 PM - 5:00 PM