



PLEA 2017 EDINBURGH

Design to Thrive

PASSIVE AND CLIMATIC DESIGN FORUM

Assembly Rooms Building: **Music Hall**
July 5th

TIME	min				
10:00 - 11:00 Components 2 - shading, insulation etc.					
Chair:			Martin	Evans	
10:00	5	0400	Heitor	da Costa Silva	Tower of Shadows a Bioclimatic Reading
10:05	5	0783	Tim	Coleridge	Performance Analysis of External Shading Devices: A Case Study of Office Building Typology in Cape Town, South Africa
10:10	5	0896	Yi	Zhang	Considerations on the Effect of External Shading Blinds Providing Low Energy Consumption and High Visual Contribution to Thermal Comfort of the Water Walls, Supplied by a Pluvial Catchment System in the Metropolitan Area of Mexico City
10:15	5	1187	Maria Yazmin	Gonzaga	Indonesia
10:20	10	1408	Muhammad	Alfata	Thermal Performance of a Roof-Pond System Under Subtropical Conditions
10:30	10	0849	Leandro	Fernandes	Taxonomy of Sustainable, Responsive and Adaptive Façades
10:40	5	1592	Nastaran	Deljavan	Performance Evaluation of New Generation Cement Based Insulating Material for Equatorial Tropics: Impact Study on Naturally Ventilated Buildings.
10:45	5	0019	Priya	Pawar	Improving Thermal Performance of Traditional Cabins in High-Altitude Peruvian Andean Region
10:50	10	0454	Cecilia	Jimenez	
Ds	11:00	0			DISCUSSION + Q&A
11:00 - 12:00 Whole buildings 4 - non-domestic					
Chair:			Martin	Evans	
11:00	10	0622	Ece	Durmaz	Daylight & Thermal Performance of Office Buildings in Ankara
11:10	10	1262	Christina	Chatzipoulka	Sky view factor as predictor of solar availability on building façades: using the case of London
11:20	5	1329	David Mwale	Ogoli	Architectural Passive Solar Design for Two Buildings in Kenya: Lowering Energy Use in Buildings
11:25	5	0415	Maria Coral	Ness	Principles and tools for building bioclimatic design. An applied review and analysis in cold climates.
11:30	5	0427	yixin	tian	The Window Optimization Design of Office Building in Cold Climates Based on Daylighting and Thermal
11:35	5	0423	Anxiao	Zhang	The climate-responsive design strategies of ancient timber-frame halls in northern China: a field study
11:40	5	0877	Anxiao	Zhang	Multi-objective window optimization of school buildings in the cold climate of China
Ds	11:45	15			DISCUSSION + Q&A
12:30 - 13:30 Whole buildings 5 - non-domestic (b), housing (d), resource data					
Chair:			Colin	Porteous	
12:30	10	1088	Yiming	Du	Research on winter physical environment and comfort of atrium space in public buildings in China's cold Environmental Conditions for Improved Productivity : A Case for Adapting Post-War Constructed Office Buildings in UK
12:40	10	1016	Thajnu	Rashid	Optimization of building form to reduce insulation
12:50	10	0375	Aram	Yeretjian	Statistical analysis of climate data for updating passive design strategies in Brazil
13:10	5	1543	Iraci	Stensjö	
Ds	13:15	25			DISCUSSION + Q&A
13:30 - 14:30 Miscellaneous Initiatives and Prototypes					
Chair:			Colin	Porteous	
13:30	10	0574	Peter	van den Engel	Opportunities of ground duct ventilation in greenhouses
13:40	5	1626	Gian Luca	Brunetti	Procedural criteria for the design and construction of a low-cost solar greenhouse
13:45	10	0675	Kleo	Axarli	The study of thermal comfort conditions as a tool in the early design stage for sustainable school buildings
13:55	10	0424	Tomoko	Kostoula	People's Behavior of Choosing Optimal Thermal Place for Sustainable Lifestyle
14:05	5	0489	Jaydeep	Bhadra	Passive Design Indices: Quantifying the potential for passive design strategies in a climate
14:10	10	0173	Jefrey I.	Kindangen	Performance Comparison of Heat Exchanger Using Water and Sand for the Evaporatif Cooling Roof: an Experimental Research
14:20	5	1210	Antonella	Trombadore	Sustainable eco-architecture for Sustainable eco-tourism: the Strategic Plan and pilot projects of Asinara
Ds	14:25	5			DISCUSSION + Q&A