



PLEA 2017 EDINBURGH

Design to Thrive

PASSIVE AND CLIMATIC DESIGN FORUM

Assembly Rooms Building: **Music Hall**

July 4th

	TIME	min				
10:00 - 11:00 Discourse (user behaviour, historical influences)						
	Chair:		Colin	Porteous		
1	10:00	10	0918 Hugo	Santos		Energy sufficiency, a synonym for passive and low energy architecture (PLEA)
2	10:10	10	0639 Omar	AL-Hafith		Determining the courtyard thermal efficiency and its impact on urban fabric: A contextual study of Baghdad, Iraq
3	10:20	5	0945 Silvia	de Schiller		Heritage and Environment for New Building in Natural Protected Areas
4	10:25	5	1595 Angela	Lombardi		Natural Ventilation Systems in 19th Century Texas Court Houses Designed by James Riley Gordon: An Analysis of the Development of Climate-Responsive Typologies
5	10:30	10	0788 Florencia	Collo		Validation of Wladimiro Acosta's Helios System
Ds	10:40	20				DISCUSSION + Q&A
11:00 - 12:00 Whole buildings 1 - Housing (a)						
	Chair:		Colin	Porteous		
8	11:00	10	0499 John Martin	Evans		The role of Passive Low Energy Design in Certification of low energy housing
9	11:10	10	0064 Gabriela	Armijo plaza		Innovative Design and Technical Feasibility of a Low Operation and Maintenance Cost Dwelling Prototype for Immigrants in a Consolidated Urban Area in Santiago de Chile
10	11:20	10	0104 EneDir	Ghisi		New method choosing design strategies for sustainable buildings.
11	11:30	5	0222 Yahya	Lavafpour		Influence of different façade designs on the optimum window-to-wall ratio for a UK Passivhaus dwelling to avoid summer overheating
12	11:35	10	1553 Renata	Camboim Salatino Tubelo		Building Envelope Optimisation for a Low-income Housing in South Brazil
13	11:45	5	0254 Drin	Chulakasyena		Free-running high rise housing in hot and humid climates – issues and solutions
14	11:50	10	0361 Manuel	Correia Guedes		Low Energy, Low-Tech Building Design in Extreme Cold Contexts
Ds	12:00	0				DISCUSSION + Q&A
12:30 - 13:30 Transition and Outdoor Spaces						
	Chair:		Silvia	de Schiller		
15	12:30	10	1421 Nihal	AL Sabbagh		Improving the ambient Air Temperature in Small Outdoor Spaces in Dubai
16	12:40	10	1431 Mohamed	El nabawi		Assessment of different shading design scenarios on air temperature and wind speed in outdoor urban street
17	12:50	5	0257 Eleni	Malaktou		Thermal behaviour of urban semi-open environments in the Mediterranean climate: the case of shopping arcades in the historic centre of Nicosia, Cyprus
18	12:55	10	0296 Jiaji	Yang		Low-income residential design in Guangzhou, China: regaining the use of transitional spaces
19	13:05	5	0587 Juan	Rojas-Fernández		Microclimatic Conditions of Internal Courtyards in Warm Climates and their Influence in Eco-Efficient Construction
Ds	13:10	20				DISCUSSION + Q&A
13:30 - 14:30 Whole buildings 2 - Housing (b)						
	Chair:		Colin	Porteous		
20	13:30	10	0507 George	Baird		Combining traditional and contemporary building designs for improved residential housing in West Africa.
21	13:40	10	0532 Kawin	Preechawuttidej		The Use of Passive Cooling System for SME Hotel Renovation
22	13:50	10	0645 Di	Wu		Energy demands of passive low-energy residential buildings in China
23	14:00	10	0973 Mia	Mehibel		Analysis of sustainable collective housing in Jijel, Algeria: evaluation of resident satisfaction.
24	14:10	10	1706 Shane	Colclough		Summer performance of certified passive houses in a Temperate Maritime Climate: monitoring results
25	14:20	10	0745 Lily	Hwang		In-situ measurement analysis of indoor thermal comfort of a natural ventilated residence in Taiwan
Ds	14:30	0				DISCUSSION + Q&A
15:00 - 16:00 Components 1 - walls/roofs, cooling/heating						
	Chair:		Gráinne	McGill		
26	15:00	10	1518 Marwa	Dabaieh		The 6 Z refugee Shelter
27	15:10	10	0302 Yvonne	Wattez		Renewed trombe wall in retrofitting design passively reduces energy consumption 'Research through design for a lightweight, translucent, adjustable trombe wall'
28	15:20	10	0053 Sara	Moh		Improving Building Fabric for Energy Efficiency in Hot Climates by Applying Passive Cooling Strategies: A Case Study for School Buildings - Towards environmental school buildings in hot, arid in Khartoum, Sudan
29	15:30	5	0892 Samuel	Dominguez-Amarillo		Energy Efficiency Evaluation of a Cool Roof for Passive Cooling in Iberian Peninsula
30	15:35	10	0721 Sanyogita	Manu		Performance evaluation of climate responsive buildings in India
32	15:45	5	0685 Attila	Kerekes		Impact of added convex windows on energy need for heating in different climatic zones
Ds	15:50	10				DISCUSSION + Q&A
16:00 - 17:00 Whole Buildings 3 - Housing						
	Chair:		Gráinne	McGill		
33	16:00	5	0682 Érico	Masiero		Environmental Comfort and Technical Solutions for Brazilian Social Housing Prototype
34	16:05	10	0752 Ferran	YUSTA GARCIA		Low Energy Consumption Design in Extreme Hot Climates: A Practical Architect's Approach in Early Design Stages
35	16:15	10	1095 Phan Anh	Nguyen		Refurbishing Houses to Improve Energy Efficiency - Potential in Vietnam
36	16:25	5	1193 Philippe	Saleh		What heavy weight buildings in hot climates can tell us about their thermal performance
37	16:30	5	1206 Philippe	Saleh		A review of minimum U-values and thermal performance benchmarks for Lebanon
38	16:35	10	1296 Maryam	Abbakyari		Passive Design Strategies for Energy Efficient Housing in Nigeria
39	16:45	5	1410 Mohd Azuan	Zakaria		Full-scale experiment on energy-saving modification for urban houses in hot-humid climate of Malaysia
Ds	16:50	10				DISCUSSION + Q&A