

COMFORT AT THE EXTREMES - WORKSHOPS LEADERS AND TITLES: AUTHORS AND PAPER TITLES			
WORKSHOP TITLE & LEADERS	First name	Surname	Abstract Title - condensed for the Programme - see Book of Abstracts for full title
WORKSHOP SESSION 1			
1) Resilient Cooling	Peter	Holzer	Workshop introduction: Resilient Cooling
Peter Holzer	Jose Roberto	Garcia Chávez	Characterization of Passive Cooling Systems for an Extreme Hot Humid Climate
Phillip Stern	Nikolaus	Knebel	Re-Discovering Passive Cooling Strategies as an Architectural Idiom for the Gulf
2) Physiology Health & Comfort	Hannah	Pallubinsky	Regular exposure to mild heat induces beneficial effects on cardiometabolic health
Wouter van Marken Lichtenbelt	Timothy	Adekunle	Seasonal stress indexes and occupants' comfort in structural timber school buildings
Hannah Pallubinsky			
3) Surviving Street life	Ulrike	Passe	Impact of trees on passive survivability in extreme heat events in warm and humid regions
Rajan Rawal	Alexander	Kader	Upgrading the Outdoor Comfort of Suburban Residential Neighbourhoods in the Gulf Region
Fergus Nicol	Nihal	Al Sabbagh	Using a microclimatic simulation tool ENVI-met to asses pedestrian's thermal comfort
	Tanya	Tan	Thermal sensation and pedestrian comfort on hot summer days in the hot-humid subtropics
4) Structures at the Extremes	Ayesha	Athar	Retrofit solutions and comfort in a mosque in the United Arab Emirates to NZEB standards
Matheos Santamouris	Peter	Hickson	Australian energy efficiency policy is killing passive low energy earth building
Wolfgang Kessling	Manuel	Guedes	Structural Design of a Movable Modular Shelter for Extreme Winds: A Study in Antarctica
	Sara	Mohamed	Improving building fabrics for energy efficiency with passive cooling strategies
5) Wellbeing, Health & AQ	Grainne	McGill	Achieving real performance in practice: lessons from building performance evaluations
Kathryn Janda	Madhavi	Indraganti	Are offices inclusive for women? Gender differences in occupant satisfaction in Asian offices
Hom Rijal	Harimi	Djamila	A meta-Analysis of Gender and Comfort
WORKSHOP SESSION 2			
6) Personal & Radiant Systems	James	Trevelyan	Localised air-conditioning demand with sustainable energy demand
Risto Kosonen	Adriana	Lira	Building Integrated Phase Change Materials: Indoor thermal regulators in the Sonoran Desert
Bjarne Olesen	Chryso	Heracleous	Compact hybrid electrical-thermal storage for historic BIPV applications in the Mediterranean
7) Behaviours at the Extremes	Santosh	Pokharel	Winter thermal environment & Nepalese household energy use in different ecological regions
Rajat Gupta	Timothy	Adekunle	Indoor air quality, cold stress, and thermal comfort in multi-family timber-frame buildings

Jessica Aguera	Kheira	Tabet Aoul	Sustainability Literacy & Higher Education; Paradigm and Challenges for Buildings in the Gulf
8) Building resilience in cities	Denise	Duarte	Envisioning a climate adaptation plan for São Paulo: a starting-point framework
Alex Wilson	Rajan	Rawal	Energy & Thermal Comfort Evaluation of a Net Zero Energy Building in Hot Dry India
Runa Hellwig	Almoataz	Abdulazeem	Sustainability, and low energy building design in high density urban cities: Case study of Cairo
9) Natural Ventilation	Romana	Markovic	Modeling natural ventilation in commercial buildings using data-driven methods
Maria Kolokotroni	Wolfgang	Kessling	Hybrid Ventilation and cooling systems: Case Study building in Singapore
Ulrike Pässe			
10) Better Buildings 1	Saif	Rashid	Energy retrofit for Uraqi residential buildings: TRNSYS analysis + different thermal insulations
Nikolaus Knebel	Garima	Kamra	Understanding Thermal Comfort and Energy Use of Low-Cost Dwelling Units in Ahmedabad
Manuel Correia Guedes	Hanan	Al-Khatiri	Effect of improved Saudi system of houses' setbacks on indoor thermal comfort conditions
	Roy	Sigalingging	The effect on thermal comfort and energy use in a Passivhaus dwelling in hot humid Jakarta
WORKSHOP SESSION 3			
11) Evaporative cooling	Craig	Farnham	Workshop introduction: Applications of evaporative cooling for thermal comfort
Craig Farnham	Zheng	Kai	Dry Misting systems and its impact on Thermal Comfort for the Tropics
Adrian Pitts	Shoumik	Desai	Performance Evaluation Of Direct Evaporative Cooling System In Hot & Dry Climate
12) Refugee shelters	Natalia	Paszkievicz	Reclaiming refugee agency and its implications for shelter design in refugee camps
Sukumar Naterrajan	Samuel	Amarillo	The architecture of refugees
Daniel Fossas	Joao	Pinelo	Siting considerations for a shelter in the extreme cold of Antarctica
	Manuel	Guedes	Thermal Performance of a Movable Modular Shelter for Extreme Cold Conditions in Antarctica
13) Comfort Health & Mortality	Indrika	Rajapaksha	Adaptive behaviours of elderly for cooling in the Tropics: Studies in nat-vent aged care homes
Alana Hansen	Chryso	Heracleous	Field study of comfort conditions in educational buildings in Cyprus
Grainne McGill			
14) Comfort and Energy Studies	Tania	Sharmin	Impact of urban geometry on indoor air temperature & cooling energy consumption in cities
Hassam Chaudhry	Gustavo	Cantuaria	Studies of the thermal effect of glazed facades and vegetation on the UHI in Brasilia
Ryozo Ooka	Daniel	Attoye	Innovation in Construction: The case of BIPV customization in extreme climates
	Alan	Meier	Non-intrusive Assessments of Thermal Discomfort in Real Time

15) Better Buildings 2	Ferran	Yusta Garcia	Solar Decathlon Middle East 2018: Analysis of key experiemtnal house features
Samuel Amarillo	Nikolaus	Knebel	Energy Monitoring, Evaluating and Optimizing PV System in a ZEB GUtech EcoHaus in Oman
Hanan Al-Khatiri	Khadeeja	Henna	Resilience analysis of strategies for exiting dwellings in warm-humid climates + climate change
	Omar	Al-Hafith	An Adaptive Thermal Comfort Model for Residential Buildings in Iraq
KEYNOTE + PLENARY SPEAKERS			
	Runa T.	Hellwig	Applying adaptive principles: guidance for planning practice
	Alex	Wilson	Passive Survivability: The ability of buildings to keep habitable conditions in power outages
	Rajat	Gupta	POE of a green certified office building in the hot dry climate of India
	Dong	Chen	Adapting Buildings Rating Schemes for the Extremes
	Fergus	Nicol	The limits of acceptable indoor temperatures
	Alana	Hansen	The Epidemiology of Health and Mortality at Extremes
	Matheos	Santamouris	Local Climate Change and Urban Mitigation Techniques to Counterbalance it
	Rajan	Rawal	City levels responses to extreme heat events in Hyderabad
	Risto	Kosonen	Boosting comfort locally with personal micro-climate systems
	Pablo	La Roche	Passive Design in Extreme Climates
	Joao	Pinelo	Bahrain parks: baselining change for urban resilience
	Samuel	Amarillo	Learning from Building Failures
	Peter	Holzer	Austrian Pavillion at Expo 2020: Towards a new vernacular?
	Hom	Rijal	Thermal Adaptation of the Buildings and People in Extremely Cold Climate of Nepal
	Wolfgang	Kessling	A paradigm shift in comfort design for Singapore
	Susan	Roaf	Extreme Design: Bouncing forwards to cope with new climate abnormals
	Sukumar	Natarjan	Refuge at the extremes
	Wouter	Lichtenberg	The Physiology of Comfort at the Extremes
	Maria	Kolokotroni	Role of Ventilative Cooling in Extreme Climates
NON-ATTENDING AUTHORS			
	Daniele	Santucci	Psychological and physiological responses to varying outdoor comfort conditions in Singapore
	mohamed	el-essawy	Energy generating envelopes: a methodology for the development of active solar envelopes
	Ahmadreza	Foruzanmehr	Vernacular houses: Egs of survival and comfort in buildings in very hot and humid conditions
	Mohammad	Alshenaifi	Study of Passive Downdraught Evaporative Cooling System in a Saudi Arabian Library
	Shady	Attia	Assessment of thermal overheating in free-running buildings in Cairo
	Mina	Jowkar	Thermal Comfort in different classroom types in higher educational buildings