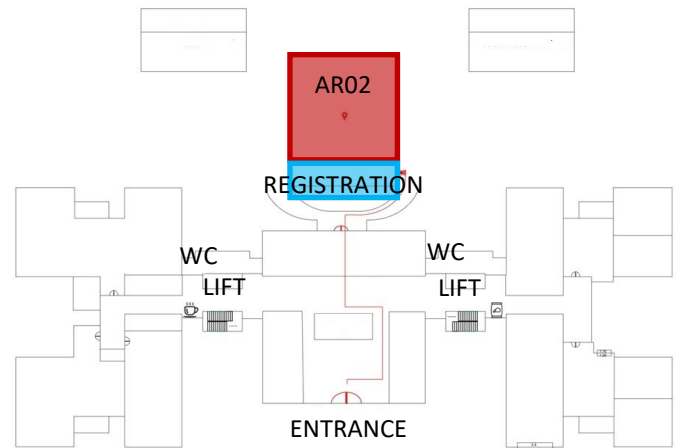
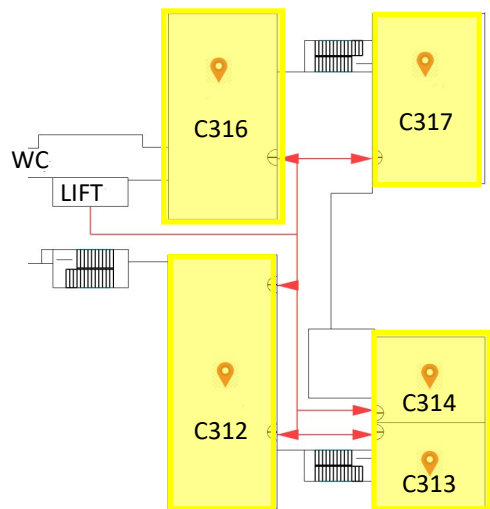


10 and 11 APRIL 2019	
ROOM NAME	SESSION/ WORKSHOP
AR02	SESSION 1 , 2, 3, 4, 5
	AFTER DINNER TALKS
C312	Workshop 1, 6 and 11
C313	Workshop 2, 7 and 12
C314	Workshop 3, 8 and 13
C316	Workshop 4, 9 and 14
C317	Workshop 5, 10 and 15



Ground Plan

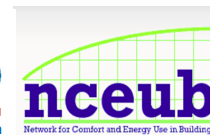


Third Floor Plan

Friday 12<sup>th</sup> April 2019

#### WINDCATCHER FIELD TRIP

Half Day Field Trip to a Sustainable Community and to Bastakia, the old Windcatcher Quarter of Dubai with expert guides. Details of time and bus transfer will be announced near the date.



## COMFORT AT THE EXTREMES: ENERGY, ECONOMY AND CLIMATE

10<sup>th</sup>-11<sup>th</sup> April 2019 Heriot Watt University,  
Dubai



Wednesday 10 <sup>th</sup> April 2019: Comfort Challenges		16.30 – 18.00 Session 3: Tools for the Future		Workshop 8: Building Resilient Cities in Extreme Climates	
08.30 REGISTRATION		Chair: Matt Santamouris		Chairs: Alex Wilson and Runa Hellwig	
09.00 - 11.00 SESSION 1: Comfort & Health Limits		16.30 Adapting building rating schemes for the extremes		Workshop 9: The Role of Natural Ventilation in Future Comfort Design	
Chair: Susan Roaf		Dong Chen		Chairs: Jose Roberto Garcia Chavez and Ulrike Passe	
09.05	Welcome speeches	Runa Hellwig		Workshop 10: Designing Better Buildings in Extremely Hot Climates (1)	
09.30	The physiology of comfort at the extremes	Joao Pinelo Silva		Chairs: Nikolaus Knebel and Manuel Correia Guedes	
Wouter van Marken Lichtenbelt		17.15 Bahrain Parks: Baselining change for urban resilience			
09.55	Global occupied domestic temperatures: A New Comfort Normal	17.35 Are Indian buildings really Green? Lessons from POE			
Fergus Nicol		Rajat Gupta			
10.20	The epidemiology of health and mortality at extremes	18.00 CONFERENCE RECEPTION		13.00 – 14.00: LUNCH	
Alana Hansen		19.00 AFTER-DINNER TALKS.		14.00 – 15.30 WORKSHOP SESSION 3	
10.45 Discussion		Chair: Ammar Kaka		Workshop 11: Evaporative Cooling for Hot Buildings and Cities	
11.00 COFFEE		Greening the Buildings of the Gulf, Habiba Al Marashi, co-founder of the Emirates Green Building Council		Chairs: Craig Farnham and Adrian Pitts	
11.30 – 13.00 SESSION 2: Exceeding the Limits		Resilient Cooling: A 21 <sup>st</sup> Century Imperative - Bjarne Olesen, President of ASHRAE		Workshop 12: Thermally Resilient Design for Transitional Refuge Shelters	
Chair: Evangelia Topriska		Thursday 11 <sup>th</sup> April 2019: Comfort Opportunities		Chairs: Sukumar Natarajan and Daniel Fosas	
11.30	Passive survival and resilience planning	08.30 REGISTRATION		Workshop 13: Comfort, Health and Mortality in Real Buildings	
Alex Wilson		09.00 - 11.00 SESSION 4: Radical Comfort Thinking		Chairs: Alana Hansen and Grainne McGill	
11.55	Heatwave design response in Ahmadabad	Chair: Adrian Pitts		Workshop 14: Comfort and Energy Studies for Extreme Climates	
Rajan Rawal		09.05 Local Climate Change and Urban Mitigation Techniques		Chairs: Ryoko Ooko and Hassam Chaudhry	
12.20	Thermal adaptation to the extremely cold climate of Nepal	Matt Santamouris		Workshop 15: Designing Better Buildings in Extremely Hot Climates (2)	
Hom Rijal		Pablo La Roche		Chairs: Samuel Domínguez-Amarillo and Hanan Al-Khatiri	
12.30	Refuge at the extremes	09.55 A paradigm shift in comfort design for Singapore		16.00 – 17.30 SESSION 5: Towards a new Vernacular	
Sukumar Natarajan		Wolfgang Kessling		Chair: Rajan Rawal	
12.50	Discussion	10.20 Boosting comfort locally with personal micro-climate systems		16.00 Comfort, Ventilation and Health – Risks and Potential Remedies for Hot Climates	
13.00 LUNCH		10.45 Discussion		Adrian Pitts	
14.00 - 16.00 WORKSHOP SESSION 1		11.10 COFFEE		16.20 Learning from Building Failures	
Workshop 1: Resilient Cooling: Low Energy, Low Carbon & Adaptive Design		11.30 – 13.00 WORKSHOP SESSION 2		Samuel Dominguez-Amarillo	
Chairs: Peter Holzer and Philipp Stern		Workshop 6: Personal & Radiant Systems		16.40 Austrian Pavillon in EXPO 2020, Dubai: A New Vernacular?	
Workshop 2: Physiology, Health and Comfort: Real Life Challenges at Extremes		Chairs: Risto Kosonen and Bjarne Olesen		Peter Holzer	
Chairs: Wouter van Marken Lichtenbelt and Hannah Pallubinsky		Workshop 7: Behaviours at the Extremes		17.00 Are rating systems fit for purpose at the extremes	
Workshop 3: Surviving Street Life in Extreme Climates		Chairs: Susan Roaf and Jessica Fernández-Agüera		Peter Hickson	
Chairs: Rajan Rawal and Fergus Nicol				Susan Roaf	
Workshop 4: Structures at the Extremes				17.20 Extreme Design	
Chairs: Matheos Santamouris and Wolfgang Kessling				17.30 Session Ends	
Workshop 5: Well-Being, Health and Air Quality				17.30 FINAL SESSION Jeff Cook Best Paper Awards and Future Plans	
Chairs: Kathryn Janda and Hom Rijal				Chairs: Sue Roaf and Evangelia Topriska	
16.00 TEA				Towards a New Vernacular: Jeff Cook's Vision	
				Pablo La Roche	
				PRIZE GIVING + BEST PAPER AWARDS	
				18.00 FREE EVENING TO EXPLORE THE CITY	