

COMFORT AT THE EXTREMES: ENERGY, ECONOMY AND CLIMATE 10th-11th April 2019 Heriot Watt University, Dubai DRAFT FINAL PROGRAMME

Wednesday 10th April 2019: Comfort Challenges

| Wednesday to April 2013. Comfort Chancinges | | | | |
|---|--|--|--|--|
| 08:30 | Registration | | | |
| 09:00 - 11.00 09.05 09.30 09.55 10.20 10.45 | SESSION 1. Comfort & Health Limits: Chair: Susan Roaf Welcome speeches The physiology of comfort at the extremes: Wouter van Marken Lichtenbelt Global occupied domestic temperatures: A New Comfort Normal Fergus Nicol The epidemiology of health and mortality at extremes: Alana Hansen Discussion | | | |
| 11.00 | Coffee | | | |
| 11:30 - 13.00 11.30 11.55 12.20 12.30 12.50 | Passive survival and resilience planning: US city lessons: Heatwave design response in Ahmadabad: Thermal adaptation to the extremely cold climate of Nepal Refuge at the extremes: Discussion Chair: Evangelia Topriska Rajan Rawal Rajan Rawal Hom Rijal Sukumar Natarajan | | | |
| 13:00 | Lunch | | | |
| 14.00 - 1600 WORKSHOP SESSION 1 Workshop 1: Chairs: Peter Holzer and Philipp Stern | | | | |
| Resilient Cooling: Low Energy, Low Carbon & Adaptive Design | | | | |
| Workshop 2: Chairs: Wouter van Marken Lichtenbelt and Hannah Pallubinsky | | | | |
| Physiology, Health and Comfort: Real Life Challenges at Extremes | | | | |
| Workshop 3: Chairs: Rajan Rawal and Fergus Nicol | | | | |
| Surviving Street Life in Extreme Climates | | | | |
| Workshop 4: Chairs: Matheos Santamouris and Wolfgang Kessling | | | | |
| Structures at the Extremes | | | | |
| Workshop 5: Chairs: Kathryn Janda and Hom Rijal | | | | |

16.00 Tea

Well-Being, Health and Air Quality

| 16.30 – 1800Session 3: Tools for the Future:Chair:Matt Santamouris16.30Adapting building rating schemes for the extremes:Dong Chen16.55Applying adaptive principles: guidance for planning practiceRuna Hellwig17.15Bahrain Parks: Baselining change for urban resilienceJoao Pinelo Silva17.35Are Indian buildings really Green? Lessons from POE:Rajat Gupta | | | | |
|---|--|--|--|--|
| 18:00 Conference Reception – 19:00 After-Dinner Talks. Chair: Ammar Kaka 1) Greening the Buildings of the Gulf, Habiba Al Marashi, co-founder of the Emirates Green Building Council 2) Implications for Construction of Warmer Temperatures in the Gulf – Bashar Kassab Facilities Manager of the Burj Khalifa and The Dubai Mall 3) Resilient Cooling: A 21st Century Imperative - Bjarne Olesen, President of ASHRAE | | | | |
| Thursday 11 th April 2019: Comfort Opportunities 08:30 Registration | | | | |
| 09:00 - 11.00SESSION 4: Radical Comfort ThinkingChair:Adrian Pitts09.05Local Climate Change and Urban Mitigation TechniquesMatt Santamouris09.30Passive Design in Extreme ClimatesPablo La Roche09.55A paradigm shift in comfort design for SingaporeWolfgang Kessling10.20New thinking for mechanical comfort cooling:Risto Kosonen10.45Discussion11.10Coffee | | | | |
| 11:30 – 13:00 WORKSHOP SESSION 2 | | | | |
| Workshop 6: Chairs: Risto Kosonen and Bjarne Olesen Boosting Comfort Locally with Personal Micro-Climate Systems Workshop 7: Chairs: Grainne McGill and Jessica Aguera Behaviours, Opportunties and Expectations as Thermal Defences Workshop 8: Chairs: Alex Wilson and Runa Hellwig Building Resilient Cities in Extreme Climates Workshop 9: Chairs: Maria Kolokotroni and Ulrike Passe The Role of Natural Ventilation in Future Comfort Design Workshop 10: Chairs: Abdulrahman Alshaikh and Shady Attia Designing Better Buildings in Extremely Hot Climates (1) | | | | |
| 13.00 – 14.00: Lunch 14.00 – 15.30 WORKSHOP SESSION 3 | | | | |
| Workshop 11: Chairs: Craig Farnham and Adrian Pitts Evaporative Cooling for Hot Buildings and Cities Workshop 12: Chairs: Sukumar Natarajan and Daniel Fosas Thermally Resilient Design for Transitional Refuge Shelters Workshop 13: Chairs: Alana Hansen and Grainne McGill Comfort, Health and Mortality in Real Buildings | | | | |
| Workshop 14: Chairs: Ryoko Ooko and Hassam Chaudhry Comfort and Energy Studies for Extreme Climates Workshop 15: Chairs: Samuel Domínguez-Amarillo and Hanan Al-Khatri | | | | |
| Designing Better Buildings in Extremely Hot Climates (2) | | | | |

| 16.00 - 17.30 | SESSION 5: Towards a new Vernacular | Chair: Rajan Rawal |
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| 16.00 | Role of Ventilative Cooling in Extreme Climates, | Maria Kolokotroni |
| 16.20 | Learning from Building Failures | Samuel Dominguez-Amarillo |
| 16.40 | Austrian Pavillon in EXPO 2020, Dubai: A New V | ernacular? Peter Holzer |
| 17.00 | Extreme Design | Susan Roaf |
| 17.30 | Session Ends | |
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| 17.30 | Final Session, Jeff Cook Best Paper Awards a | nd Future Plans: |
| | Chairs: Sue Roaf and Evangelia Topriska | |
| | Towards a New Vernacular: Jeff Cook's Vision | Pablo La Roche |
| | Prize giving + Best Paper Awards | |
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| 18.00 | FREE EVENING TO EXPLORE THE CITY | |

Friday 12th 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.

