



PLEA 2017 EDINBURGH

Design to Thrive

VENTILATION FORUM

Royal Society of Edinburgh (RSE): Swann Room 10
July 5th

TIME min

10.00 - 11:00 Ventilation, Thermal Comfort & Performance Prediction

| Chair: | | | Brian Ford | | |
|--------|-------------|----|------------|------------------------------|--|
| 1 | 10:00-10:10 | 10 | 0627 | José Antonio Castillo Torres | Indoor comfort evaluation by natural ventilation in hot climates: Heat Balance Index |
| 2 | 10:10-10:20 | 10 | 1721 | Yin Wei | Winter Indoor thermal environment investigation in apartments at a central China city and Dutch Eindhoven |
| 3 | 10:20-10:30 | 10 | 1558 | José Roberto García Chávez | Application of Experimental and CFD Methods as an Educational Approach for Evaluation of Natural Ventilation to Improve Hygrothermal Comfort |
| 4 | 10:30-10:40 | 10 | 0234 | Sabrina Barbosa | Influence of Application of Accurate Airflow Resistance on Openings with Different Configurations of Shading Devices on the Building Thermal Performance |
| 5 | 10:40-10:50 | 10 | 0264 | Saba Alnusairat | Skycourt as ventilated buffer zone in office buildings: assessing energy performance and thermal comfort |
| 6 | 10:50-11:00 | 10 | 1369 | Elisur Mogollon Cortes | Assessment of Natural for Air Renewal and Thermal Comfort in an Offices in Mexico City |

11.00 - 12:00 Ventilation - Building Applications

| Chair: | | | Brian Ford | | |
|--------|-------------|----|------------|----------------|---|
| 7 | 11:00-11:10 | 10 | 0986 | Carlos Escobar | Natural ventilation analysis of window distribution following the constructal law in social interest housing |
| 8 | 11:10-11:20 | 10 | 1184 | Gráinne McGill | Ventilation performance and end-user interaction: Comparison of natural and mechanical strategies in new-build social housing |
| 9 | 11:20-11:30 | 10 | 0777 | Devna Vyas | Effectiveness of Natural and Mechanical Ventilative Cooling in Residential Building in Hot & Dry and Temperate Climate of India |
| 10 | 11:30-11:40 | 10 | 0052 | Bakr Gomaa | CFD for Reliable Wind-Driven Natural Ventilation Studies in the Built-Environment; the Process Demystified |
| 11 | 11:40-11:50 | 10 | 0089 | Massimo Palme | The Pacific Breezes: Estimation of the overheating risk and the natural ventilation potential for buildings in cities of the Chilean Pacific Coast. |
| 12 | 11:50-12:00 | 10 | 1550 | Patricia Drach | Indoor Temperature Variation with Different Roof Materials and Natural Ventilation |