Programme

Tuesday 14 March

09:15-11:00  Session 1: Opening Session

- Welcome on behalf of AIVC
- Considerations on IAQ metrics from regulatory and compliance point of view - Use of IAQ metrics in practice, Peter Wouters, BBRI, Belgium
- Defining the metrics to assess the IAQ in low-energy residential buildings: results from IEA EBC Annex 68 Subtask 1, Marc Abadie, U. La Rochelle, France
- The promise and problems of performance-based ventilation, William P. Bahnfleth, Pennsylvania State University, USA

11:00-11:30 Coffee break

11:30-13:00  Session 2: Indoor Air Quality metrics in practice

- What can’t perceived air quality indices tell you about indoor air quality? Pawel Wargocki, DTU, Denmark
- Indoor carbon dioxide as metric of ventilation and IAQ: Yes or No or Maybe? Andrew Persily, NIST, USA
- IAQ assessment in high performing buildings, Kevin Teichman, Environmental Protection Agency, USA

Discussion: 30’

13:00-14:00 Lunch break

14:00-15:30  Session 3: From ventilation airflow rates to IAQ metrics

- Rationale behind current ventilation airflow rates, Wouter Borsboom, the Netherlands
- Concentration versus m³ air per hour – the battle of assessors, Marcel G.L.C. Loomans, Eindhoven University of Technology, the Netherlands
- Status and perspectives for the development of IAQ metrics in the US, Iain Walker, LBNL, USA

Discussion: 30’
15:30-16:00 Coffee break

16:00-17:00  Session 4: IAQ assessment - System submetrics - IAQ modelling
  • Performance-based control of an adaptive hybrid IAQ system. The user as key performance
    indicator. Bert Belmans, VU Brussel, Belgium
  • Can contaminant air quality indices be used to analyse the risk of airborne cross infections in
    hospital environments? Manuel Ruiz de Adana Santiago, University of Cordoba, Spain
  • Suitable ventilation in schools – mechanical or natural? Thomas Hartmann, ITG Dresden,
    Germany
  • Radon measurement for the assessment of IAQ, Tiberiu Catalina, Technical University of Civil
    Engineering, Romania

17:30-19:00  Reception

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09:00-10:30  Session 5: IAQ assessment and performance-based approaches
  • A review of pollutants and sources of concern and performance-based approaches to
    residential smart ventilation, Gaëlle Guyot, Cerema, France
  • Indoor Air Quality and thermal comfort in Irish retrofitted energy efficient homes, Marie
    Coggins, National University of Ireland, Ireland
  • Modelling trade-offs between building energy and health, Catherine Noakes, University of
    Leeds, UK

Discussion: 30'

10:30-11:00 Coffee break

11:00-12:30  Session 6: IAQ assessment and Performance-based approaches
  • Comparison of different performance-based approaches for the definition of ventilation
    requirements in dwellings, Samuel Caillou, BBRI, Belgium
  • The influence of different ventilation strategies and demand control on the indoor air quality
    in dwellings, Romy Van Gaever, BBRI, Belgium
  • Demand controlled ventilation in residential buildings, Caroline Markusson, SP, Sweden

Discussion: 30'

12:30-13:00  Session 7 Closing
  • Questions and Answers, François Rémi Carrié, ICEE, France
  • Highlights of the workshop, Benjamin Jones, University of Nottingham, UK
  • Next steps and future events, François Rémi Carrié, ICEE, France