



Emerging smart ventilation strategies for energy efficient IAQ management

Tuesday November 23rd, 2021

16:00-17:45 (Brussels, BE)

15:00-16:45 (London, UK)

17:00-18:45 (Athens, GR)

07:00-08:45 (San Francisco, USA)

23:00-00:45 (Beijing, CN)

10:00-11:45 (Toronto, CA)

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Registration is required: A link to join the webinar will be included in the email confirmation.

In this webinar, we will address the opportunities offered by smart ventilation strategies, which include a wide range of systems depending on the type of sensing parameters (CO₂, humidity, occupancy, etc.), the type of sensing combinations, the type of installation (centralized/decentralized), the types of control algorithms, etc. We will also quantify their potential from an energy and IAQ point of view based on existing and newly developed assessment framework in the annex.

This webinar is organized by the Air Infiltration and Ventilation Centre (<https://www.aivc.org/>)¹ & the IEA EBC Annex 86 “Energy Efficient Indoor Air Quality Management in Residential Buildings” (<https://annex86.iea-ebc.org/>). The webinar is facilitated by INIVE (<http://www.inive.org/>).

Programme (Brussels time)

- ✚ 16:00 | Introduction IEA-EBC Annex 86 and dissemination activities, **Carsten Rode, Leader of ST6, IEA EBC Annex 86 – DTU, Denmark**
- ✚ 16:05 | Introduction IEA-EBC Annex 86 ST4-smart ventilation, **Gaëlle Guyot, Leader of ST4, IEA EBC Annex 86 – Cerema, France**
- ✚ 16:10 | Investigation of natural ventilation control with regard to indoor and outdoor environments: First results, **Evangelos BELIAS – EPFL, Switzerland**
- ✚ 16:30 | Implementation of a MPC for an all-air system in an educational building, **Bart Merema, KU Leuven – Belgium**
- ✚ 16:50 | Draft for a health related performance assessment framework for smart ventilation, **Klaas De Jonge – UGent, Belgium**
- ✚ 17:10 | Residential Applications of Smart Ventilation Controls, **Iain Walker – LBNL, USA**
- ✚ 17:30 | Questions and Answers, **Jakub Kolarik, Co-Leader of ST4, IEA EBC Annex 86 – DTU, Denmark**
- ✚ 17:45 | Closing & End of webinar

¹ Note: The recordings of previous webinars can be found at: <https://www.aivc.org/events/webinars>



Cost and registration

Participation to the webinar is free but requires you to register for the event. The webinar will be limited to a maximum of 1000 persons. To register, please click on the "Register now" button above.

What is a webinar?

A webinar is a conference broadcasted on internet. To follow a webinar you must have a computer with a sound card and speakers or headphones. Once logged in the "conference room", you will be able to see the slides of the presentation and to hear the panellists' comments. You will also be able to ask written questions to the speakers, and to answer on-line surveys.

Hardware, software

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About AIVC

Created in 1979, the Air Infiltration and Ventilation Centre (www.aivc.org) is one of the projects/annexes running under the International Energy Agency's Energy in Buildings and Communities (IEA-EBC) Programme. With the support of its member countries as well as key experts and two associations (REHVA, IBPSA, ISIAQ), the AIVC offers industry and research organisations technical support aimed at better understanding the ventilation challenges and optimising energy efficient ventilation.

The AIVC activities are supported by the following countries: Australia, Belgium, China, Denmark, France, Greece, Italy, Ireland, Japan, Netherlands, New Zealand, Norway, Republic of Korea, Spain, Sweden, UK and USA.

About EBC Annex 86 - Energy Efficient Indoor Air Quality Management in Residential Buildings

Annex 86 Energy Efficient Indoor Air Quality Management in Residential Buildings (<https://annex86.iea-ebc.org/>) is an international research project of the IEA Energy in Buildings and Communities (EBC) programme. The goal of this annex is to work in an international collaboration to create an integrated general assessment method to operationalize the air quality approach suggested by IEA EBC Annex 9 to support the development, rating and implementation of innovative and highly energy efficient IAQ management strategies. An IAQ management strategy is understood to be any coherent set of measures by a stakeholder in the building that aims to improve IAQ. Annex 86 aims to improve the energy efficiency of the IAQ management strategies in operation and to improve their acceptability, control, installation quality and long-term reliability.

About INIVE

INIVE EEIG (International Network for Information on Ventilation and Energy Performance) was created in 2001 as a so-called European Economic Interest Grouping. The main reason for founding INIVE was to set up a worldwide acting network of excellence in knowledge gathering and dissemination. At present, INIVE has 8 member organisations (BBRI, CETIAT, CSTB, eERG, IBP-Fraunhofer, NKUA, SINTEF, and TNO) (www.inive.org)

INIVE is coordinating and/or facilitating various international projects, e.g. AIVC (www.aivc.org), TightVent Europe (www.tightvent.eu), venticool and Dynastee (www.dynastee.info). INIVE has also coordinated the ASIEPI project dealing with the evaluation of the implementation and impact of the EU Energy Performance of Buildings Directive, the QUALICHeCK project aiming towards improved compliance and quality of the works for better performing buildings, BUILD UP the European portal on Energy Efficiency and the EPBD feasibility study 19a (<https://www.epbd19a.eu/>).