Air Infiltration and Ventilation Centre

Recent standards and guidelines on CO_2 application and interpretation

Monday 17 March 2025

16:00-17:30 (Brussels, BE)

15:00-16:30 (London, UK)

08:00-09:30 (Berkeley, USA)

11:00-12:30 (Montreal, CA)

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Indoor carbon dioxide concentrations have been measured and discussed in the context of building ventilation and indoor air quality (IAQ) for more than 100 years. In recent decades they have been proposed as an easy way to evaluate the adequacy of ventilation, even to estimate ventilation rates, as well as an indicator of IAQ. Many of these proposals and applications of CO_2 have been technically incomplete if not wrong. The application of indoor CO_2 concentrations, as well as their misinterpretation, has increased in light of the COVID-19 pandemic. That said, standards and guidance have been developed to clarify the application and interpretation of indoor CO2 concentrations. This webinar will provide information on those developments with the intent of advancing the dialog on this important topic.

This webinar is organised by the Air Infiltration and Ventilation Centre (www.aivc.org) and facilitated by INIVE (www.inive.org).

Agenda (CET)

16:00	**Welcome & Introduction** Andrew Persily (NIST, USA)
16:05	**Background on the application of indoor CO_2: ASHRAE Position Document and ASTM Standard D6245** Andrew Persily (NIST, USA)
16:20	**Questions and answers**
16:25	**Demand controlled ventilation in ISO 17772-1 (EN 16798-1) and ASHRAE Standard 62.1** Bjarne Olesen (Technical University of Denmark, Denmark)
16:40	**Questions and answers**
16:45	**Indoor CO_2 values in guidelines and standards** Mark Mendell (Lawrence Berkeley National Laboratory, USA)
17:00	**Questions and answers**
17:05	**ISO 16000-26, Sampling strategy indoor CO2 and a review of sensing technology** John Saffell (NosmoTech Ltd., UK)
17:20	**Questions and answers**
17:30	**End of Webinar**

EBC
Energy in Buildings and Communities Programme

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?

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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 various 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, Canada, Denmark, France, Italy, Ireland, Japan, Netherlands, New Zealand, Norway, Republic of Korea, Spain, Sweden, UK and USA.

About INIVE

INIVE (International Network for Information on Ventilation and Energy Performance) was created in 2001. 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 as member organisations Buildwise, Cerema, CETIAT, Ghent University, IBP-Fraunhofer, KU Leuven.
INIVE is coordinating and/or facilitating various international projects, e.g. AIVC (www.aivc.org), TightVent Europe (www.tightvent.eu), venticool (https://venticool.eu/) 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 feasiblity study 19a.