



IAQ sensors for smart ventilation of buildings

Tuesday 6 March 2018

15:00-16:30 (Brussels, BE)

14:00-15:30 (London, UK)

09:00-10:30 (New York, USA)

06:00-07:30 (San Francisco, USA)

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

AIVC defines smart ventilation as a process to continually adjust the ventilation system of a building in order to provide the desired Indoor Air Quality (IAQ) benefits while minimizing energy consumption, utility bills and other non-IAQ costs (thermal discomfort, noise, etc.). Smart ventilation responds to one or more of the following: building occupancy, outdoor conditions, electricity grid needs, operation of other building systems, direct sensing of contaminants.

Recent developments in low-cost sensors have opened up the opportunity to sense contaminants in the indoor environment and use these measurements to control ventilation, filtration and other air cleaning systems. Before using these sensors for these critical applications, there is a need to know how well they measure pollutants of concern.

The objective of this webinar is:

- to show an overview of the available low cost sensors for indoor air measurements (particulates, VOCs, CO₂);
- to present results of two recent laboratory and on site evaluations of some sensors;
- to assess their applicability to ventilation system control.

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

Programme (Brussels time)

15:00 **INTRODUCTION**
Peter Wouters, AIVC, Belgium

15:10 **EVALUATING PARTICULATE SENSORS FOR IAQ CONTROLS**
Iain Walker, LBNL, USA

15:35 **Questions and answers**

15:50 **ASSESSMENT OF LOW-COST PARTICULATE AND VOC SENSORS**
Laure Mouradian, CETIAT, France

16:15 **Questions and answers**

16:30 **End of the webinar**



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 200 persons. To register, please click on the "Register now" button above or visit inive.webex.com.

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 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: Belgium, Denmark, France, Italy, Japan, Netherlands, New Zealand, Norway, Republic of Korea, Spain, Sweden, UK and USA.

About IEA-EBC

The IEA (International Energy Agency) Energy in Buildings and Community (EBC) Programme carries out research and development (R&D) activities towards near-zero energy and carbon emissions in the built environment. These joint international research projects are directed at energy saving technologies and activities that support technology application in practice. Results are also used in the formulation of international and national energy conservation policies and standards.

The EBC R&D Programme is mainly undertaken through a series of research projects, so-called 'Annexes'. Typically each Annex has a life span of 3 to 4 years, although an extension is possible if a continuing need for the activity is identified.

There are many operational Annexes, of which AIVC is one - Annex 5 - with the primary objective to provide reliable reference information on R&D in the fields of air infiltration and ventilation, key aspects to achieve healthy and comfortable nearly-zero energy buildings. For further information on the IEA EBC Programme please visit: <http://www.iea-ebc.org/>

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 9 member organisations (BBRI, CETIAT, CSTB, eERG, IBP-Fraunhofer, SINTEF, NKUA, TMT US and TNO) (www.inive.org)

INIVE is coordinating and/or facilitating various international projects, e.g. the AIVC, TightVent Europe (www.tightvent.eu), venticool and Dynastee (www.dynastee.info). INIVE has also coordinated the ASIEPI project

([https://ec.europa.eu/energy/intelligent/projects/en/projects/asiepi_01/10/2007 - 31/03/2010](https://ec.europa.eu/energy/intelligent/projects/en/projects/asiepi_01/10/2007_-_31/03/2010)) dealing with the evaluation of the implementation and impact of the EU Energy Performance of Buildings Directive, the QUALICHeCK project and platform (<http://qualicheck-platform.eu/>) aiming towards improved compliance and quality of the works for better performing buildings as well as BUILD UP the European portal on Energy Efficiency (www.buildup.eu).

