



## AIVC Spring Workshop Webinar 1

# Building ventilation: How does it affect SARS-CoV-2 transmission?

**Thursday April 1<sup>st</sup>, 2021**

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17:00-18:30 (Brussels, BE)

16:00-17:30 (London, UK)

08:00-09:30 (San Francisco, USA)

11:00-12:30 (New York, USA)

**REGISTER NOW**

**FREE** – Participation to the Webinar is free

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

The Air Infiltration and Ventilation Centre (AIVC) is organizing a spring workshop consisting of a series of three webinars on:

- **April 1<sup>st</sup>, 2021 (17:00-18:30 CET): Building ventilation: How does it affect SARS-CoV-2 transmission? ([Register now](#))**
- April 8<sup>th</sup>, 2021 (09:00-10:30 CET): IAQ and ventilation Metrics ([Register now](#))
- April 13<sup>th</sup>, 2021 (17:00-18:30 CET): Big data, IAQ and ventilation ([Register now](#))

In this webinar, we address the potential mitigating role of building ventilation in the spread of the COVID-19 pandemic. In the first part of the webinar, we look at building ventilation as one of the mechanisms that affects exposure to infectious aerosol and the uncertainty in relating exposure to airborne transmission of the virus. In the second part of the webinar, we focus on the airflow in real indoor environments, with results from field experiments with aerosol sources and the use of pressure difference in buildings to control the spread of aerosols.

This webinar is organized by the Air Infiltration and Ventilation Centre (<https://www.aivc.org/>) & 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)

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- ✚ 17:00 | Introduction, **Arnold Janssens – chair of AIVC WG COVID-19, Ghent University, Belgium**
- ✚ 17:10 | The Role of Building Ventilation in Indoor Infectious Aerosol Exposure, **Andrew Persily – NIST, USA**
- ✚ 17:25 | Modelling uncertainty in the relative risk of exposure to the SARS-CoV-2 virus by airborne aerosol transmission, **Cath Noakes – University of Leeds, UK**
- ✚ 17:40 | Questions and Answers
- ✚ 17:50 | Field measurements of aerosol exposure in indoor environments, **Wouter Borsboom – TNO, Netherlands**
- ✚ 18:05 | Ventilation system design and the risk areas for spreading airborne contaminants in office buildings, **Alireza Afshari – Aalborg University, Denmark**
- ✚ 18:20 | Questions and Answers
- ✚ 18:30 | Closing & End of 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 1000 persons. To register, please click on the "Register now" button above or visit [inive.webex.com](http://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**

Our webinars are powered by WebEx Event Center. The only thing you need is a computer with a sound card and speakers. Before you can log in the "conference room", WebEx will install the required application. If you are not a WebEx user, please visit [www.webex.com/login/join-meeting-tips](http://www.webex.com/login/join-meeting-tips) to check the system requirements and join a test meeting. Please also join the event at least 15 minutes in advance.

### **About AIVC**

Created in 1979, the Air Infiltration and Ventilation Centre ([www.aivc.org](http://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](http://www.inive.org))

INIVE is coordinating and/or facilitating various international projects, e.g. AIVC ([www.aivc.org](http://www.aivc.org)), TightVent Europe ([www.tightvent.eu](http://www.tightvent.eu)), venticool and Dynastee ([www.dynastee.info](http://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/>).