



Air Infiltration and Ventilation Centre

Emerging Risks of Indoor Mould: Assessment Methods, In-Situ Measurements & Predictive Modelling

Thursday 18 September 2025

15:30-17:00 (Brussels, BE)

14:30-16:00 (London, UK)

22:30-00:00 (Tokyo, JP)

09:30-11:00 (Montreal, CA)

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

Climate change is increasingly recognized as a driver of indoor environmental health risks, particularly through the promotion of mould growth, including strains resistant to heat and fungicides. As people spend over 80% of their time indoors, the growing vulnerability of buildings to elevated humidity and moisture poses a significant public health risk. Mould exposure has been linked to respiratory and cardiovascular illnesses, allergic reactions, cognitive decline, and diminished quality of life—outcomes reflected in rising Disability-Adjusted Life Years (DALYs). Most existing buildings lack adequate design features to withstand these changing indoor conditions, highlighting the urgent need for adaptive and proactive interventions.

Innovation is essential to address these challenges. Key priorities are development of simulation tools to predict mould growth, affordable and accurate in-situ diagnostic technologies based on standardised measurement protocols to detect and quantify mould exposure under changing climatic conditions. These tools are key to evidence-based mitigation strategies, enabling improved public health outcomes and reduced healthcare expenditures.

This webinar will focus on recent advancements in low-cost sensor technologies and simulation tools for early detection and forecasting. Experts and researchers will present methodologies applicable in both residential and non-residential settings, fostering interdisciplinary dialogue and collaborative solutions.

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

Agenda (CET)

15:30	Welcome & Introduction Wouter Borsboom (TNO, NL)	16:15	Questions and answers
15:35	How to improve our possibilities to establish, predict and control mould risks? Maaïke le Feber (TNO, NL)	16:25	Modelling Mould Growth in Domestic Environments Using Relative Humidity & Temperature Tamaryn Menneer (University of Exeter, UK)
15:50	Questions and answers	16:40	Questions and answers & Closing
16:00	Simulation-Based Prediction of Mould Growth Using Coupled Building and Fungal Models Klaas de Jonge (University of Ghent, BE)	17:00	End of Webinar





Air Infiltration and Ventilation Centre

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 "webinar 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 various associations (REHVA, IBPSA, ISIAQ, EVIA...), 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 feasibility study 19a.

