

Welcome on behalf of AIVC, TightVent, Venticool and IEQ-GA

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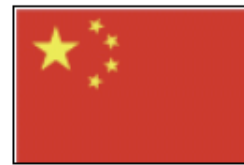
Welcome on behalf of AIVC (1979 - ...)



Australia



Belgium



China



Denmark



France



Greece



Ireland



Italy



Japan



Netherlands



New Zealand



Norway



Republic of Korea



Spain



Sweden



United Kingdom



United States of
America

Vision and Mission

- The **vision** of AIVC is to be the world's primary information centre on energy efficient ventilation for good indoor air quality in buildings.
- The **mission** of AIVC is to advance the worldwide knowledge and practice of energy efficient ventilation and air infiltration control of buildings, in close collaboration with other leading organisations.
 - Leveraging international technical expertise on ventilation, infiltration and indoor air quality
 - Facilitating information exchange and advanced web-based dissemination strategies between experts in research, industry and policy making.

Focus fields and projects



Smart Ventilation



Resilient Ventilative Cooling



Building & Ductwork airtightness



Indoor Environmental Quality



AIVC Projects

Events

The AIVC holds a conference each year in September/October, a workshop in March/April and several webinars, covering a wide range of topics in the field of infiltration and ventilation in buildings. The conferences and workshops take place in one of the AIVC participating countries. Since 1980, the AIVC annual conferences have been an international meeting point for presenting and discussing major developments and results regarding infiltration and ventilation in buildings.

Click on the links below to know more.



Conferences



Workshops



Webinars

- **Annual conferences** in collaboration with TightVent and venticool platforms
- **Annual workshops** in collaboration with local hosts on themes of local interest
- **Webinars** presenting results of projects or publications.



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43rd AIVC - 11th TightVent & 9th venticool Conference

October 4-5, 2023

Aalborg University, Copenhagen, Denmark

Ventilation, IEQ and health in sustainable buildings

Japan and AIVC



- Member country of AIVC since 2006
- AIVC-conference in Japan:
 - 2008, Kyoto, Advanced building ventilation and environmental technology for addressing climate change issues
- Specific dissemination:
 - VIP 25, Trends in the Japanese building ventilation market and drivers for changes (2008)
 - Project 'Energy Recovery Ventilation' (2021-x)

The image shows the cover of a technical paper. At the top left, it says 'ANNEX 5' and 'EBC Energy in Building and Communities Programme' with a small house icon. The title 'Ventilation Information Paper n° 25' is in a dark red triangle on the left, with 'May 2008' below it. The main title 'AIVC Technical Paper n° 25' is in orange and black. Below that, it says '40 years to History of the February 2022'. The authors are listed as Peter Wouters, Maria Kapsalaki, Willem de Gids, and Martin Liddament. The AIVC logo and name are on the right, along with the subtitle 'Trends in the Japanese building ventilation market and drivers for change' and the authors' names: Takao Sawachi and Masaki Tajima. The paper is published by the International Energy Agency. The bottom of the cover has a blue bar with 'Technology Collaboration Programme' and '1042'.

ANNEX 5



Ventilation
Information
Paper
n° 25

May 2008

AIVC Technical
Paper
n° 25
February 2022

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Air Infiltration and Ventilation Centre

Trends in the
Japanese building
ventilation market
and drivers for
change

Takao Sawachi, Dr. Eng., NILIM
Masaki Tajima, Ph.D., NILIM

1 Introduction

The technology in building physics and mechanical engineering for building ventilation may not be totally new area and must have rather long history and much knowledge accumulation of their own. Nowadays, the distance between the engineering field and society looks becoming shorter, since there are stronger needs from the society than before to reduce the environmental impact of the buildings and to enhance the indoor environmental quality with cost effectiveness, at the same time. The technological solutions by the engineering filed should have been cost effective so far as they can satisfy the contemporary needs, and resultantly they always must have contained compromises. That must be a reason why there is still many problems to be solved in the field of building physics and mechanical engineering for building ventilation. In this paper, such re-emerging or new problems, which are being struggled by experts in Japan will be reviewed and introduced. The authors wish that it should be fruitful for experts in different countries to be able to share some of the problems and the strategies to solve them.

2 National trends in IAQ requirements and market characteristics

2.1 Requirements on ventilation of dwellings

When buildings are to be built or to be repaired in a large scale, it is mandatory to apply for building confirmation according to the Building Standard Law. Without complying with the law, any buildings can not be built nor repaired in a large scale. As for the building ventilation, there are three kinds of regulations.

Firstly, there is a minimum requirement for the supply of outdoor air for habitable rooms, which can be satisfied either of mechanical ventilation or natural ventilation by window opening. For the mechanical ventilation, a minimum ventilation requirement is set at 20 m³/h per person, and for the natural ventilation the minimum ratio of the openings is set at 1/20 of the room floor area.

Secondly, for rooms in which fire is used, the minimum ventilation requirement is set in proportion to the quantity of gas products generated during combustion.

Workshops

This section gives information on workshops organised or supported by the AIVC

Upcoming Workshops

18

May

2023

18-19 May 2023, Workshop, Tokyo, "Towards high quality, low-carbon ventilation in airtight buildings"

Mark your calendars for the upcoming AIVC 2023 Workshop "Towards high quality, low-carbon ventilation in airtight buildings" to be held on 18-19 May, 2023 in Tokyo, Japan! The workshop will take place at Bellesalle Mita (Mita, Minato-ku, Tokyo 108-6301 (Room 1)). The workshop theme is "Towards high quality, low-carbon ventilation in airtight buildings". Information on registration, programme, speakers etc. will follow soon, so stay tuned.

Past Workshops

27

Mar

2019

27-28 March 2019, Symposium, Dublin, "Quality ventilation is the key to achieving low energy healthy buildings"

Sustainable Energy Authority of Ireland (SEAI) together with the Air Infiltration and Ventilation Centre (AIVC) organised a symposium entitled "Quality ventilation is the key to achieving low..."

23

Mar

2018

23 March 2018, Workshop, Sydney (AU) - Ventilation for Indoor Air Quality and Cooling

Aiming to inform Australian researchers and engineers on recent developments in the field of ventilation technologies, the workshop gave international experts visiting Australia the opportunity to...

2 other related platforms managed by INIVE



Both platforms have a strong market oriented approach with active involvement of industry and practitioners



More focusing on knowledge generation aspects



More focusing on awareness raising and market implementation



...Building and ductwork airtightness...

...Ventilative cooling...

venticool

IEQ-GA



- Indoor Environmental Quality – Global Alliance
 - Interdisciplinary, international working group of societies interested in IEQ, to stimulate activities that will help to improve the actual IEQ in buildings
 - Created in 2019, with AIVC as founding member
- 11 full and 2 affiliate members, eg AIVC, ASHRAE, REHVA, ASA, ISHRAE,...
- Example action:
 - Joint task force on COVID-19
 - Website information centre: <https://ieq-ga.net/>
 - Contact with WHO Engineering Control Expert Advisory Panel (ECAP)

Thank you!

- Presenters
- Organizing committee
- Session chairs

- You: the audience!