

Workshop 6 May 2020

# Urban Home Ventilation

OsloMet, Pilestredet 46, Oslo, Auditorium Athene

Setting sustainable urban development goals and developing energy efficient solutions for buildings are crucial elements of climate action. Urban living is introducing new challenges both for architectural design and technical solutions. Ventilation systems have an important impact both on energy use as well as indoor climate and health in buildings. So, *how can we develop good home ventilation solutions fit for urban living?* The Air Infiltration and Ventilation Centre (AIVC) together with the Oslo Metropolitan University (OsloMet) and SINTEF Community are organizing a 1-day workshop to provide insights from national and international experiences in the field.

08:30 Registration in lobby of address Pilestredet 46, OsloMet, Oslo

## THEME 1:

Ventilation requirements, quality, and trends

Chair: Max Sherman and Peter Wouters

09:00 International activities (IEA, AIVC, [www.epbd19a.eu](http://www.epbd19a.eu) etc.) linked to ventilation and IAQ

*Peter Wouters BBRI, Belgium*

09:20 Ventilation and IAQ in Nordic countries – Status, trends and opportunities

*Kari Thunshelle, SINTEF, Norway*

09:40 A developer's perspective on urban home ventilation issues

*Ole Petter Haugen, Selvaag Bolig, Norway*

10:00 Workshop discussion

*Moderator: Peter Wouters*

## THEME 3:

Moisture control

Chair: Arnold Janssens and Sverre Holøs

13:00 Strategies for avoiding too high or too low relative humidity in dwellings

*Sverre Holøs, SINTEF, Norway*

13:20 Moisture buffering in modern timber constructions

*Dimitris Kraniotis, OsloMet, Norway*

13:40 Understanding moisture recovery in heat/energy recovery ventilation as the basis for new market solutions

*Peng Liu, SINTEF, Norway*

14:00 Workshop discussion

*Moderator: Peter Schild, OsloMet*

10:15-10:40 Coffee break in the lobby

14:15-14:45

Coffee break in the lobby

## THEME 2:

Kitchen ventilation

Chair: Wouter Boursboom and Kari Thunshelle

10:40 Experiences from assessing in-situ effectiveness of cooker hoods

*Iain Walker, LBNL, USA*

11:00 Documentation of cooker hood performance, a laboratory perspective

*Svein Ruud, RISE, Sweden*

11:20 Extract cooker hoods – possibilities and challenges

*Haavard Augensen, Røros Metall, Norway*

11:35 Recirculating cooker hoods – possibilities and challenges

*Martin Oberhomburg/Reinhard Wiedenmann, BSGH, Germany*

11:50 Workshop discussion

*Moderator: Kari Thunshelle*

## THEME 4:

Comfort control

Chair: Pilar Linares Alemparte and Peter Schild

Resilient cooling — Findings from IEA Annex 80

*Peter Holzer, IBRI, Austria*

15:05 nZEB temperature zoning – "Fresh" bedrooms and a warm living room

*Laurent Georges, NTNU, Norway*

## Closing session

15:25 Kahoot poll + workshop discussion based on the replies

*Moderator: Kari Thunshelle*

15:55-16:00 Concluding remarks

12:00-13:00 Lunch: Buffet in 'Fyrhuset' bistro

## URBAN HOME VENTILATION WORKSHOP, 6 MAY 2020 – PILESTREDET 46, OSLO

### Time and location:

6 May 08:30-16:00, OsloMet, Pilestredet 46, Oslo, [www.oslomet.no](http://www.oslomet.no)

### Registration:

<https://www.sintef.no/community/kurs-og-konferanser/>

Registration deadline: 22 April 2020

Participant fee: 620 NOK (62 EUR)

Questions: [angelika.hansen@sintef.no](mailto:angelika.hansen@sintef.no) (practical)      [kari.thunshelle@sintef.no](mailto:kari.thunshelle@sintef.no) (scientific)

The target audience includes scientists, researchers, professional & industry experts, students etc.

Should travel restrictions occur due to the Corona virus, the workshop will be turned into a webinar.

Lunch at Fyrhuset, close by, <https://www.sio.no/mat-og-drikke/møtemat-arrangementer/leie-lokale>



### Recommended hotels:

Radisson Blu Scandinavia <https://www.radissonhotels.com/no-no/hoteller/radisson-blu-oslo-scandinavia>.

*Close to OsloMet and the City centre. Business hotel.*

Smart hotel Oslo – an affordable hotel in the city centre nearby OsloMet

[smarthotel.no/en/oslo](http://smarthotel.no/en/oslo)