

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 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 contractor's perspective on urban home ventilation issues

Ole Petter Haugen, Selvaag, Norway

10:00 Workshop discussion

Moderator: Peter Wouters

10:15-10:40 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

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

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

14:15-14:45

Coffee break in the lobby

THEME 4:

Comfort control

Chair: Maria Kolotroni and Peter Schild

14:45 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

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

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 (practical) kari.thunshelle@sintef.no (scientific)

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

Lunch at Fyrhuset, close by, <https://www.sio.no/mat-og-drikke/motemat-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