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## *WS 11: Demand Controlled Ventilation (DCV)*

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**Tuesday, June 18, 13.00-14.30, Meeting room B**

*Workshop organiser*

**Swegon Air Academy, CIT Energy Management**

*Additional information, links*

[www.swegonairacademy.com](http://www.swegonairacademy.com)  
[www.swegon.com](http://www.swegon.com)  
[www.energy-management.se](http://www.energy-management.se)

*Presenters*

Chair:	John Woollett	Swegon Air Academy
Co-Chair:	Mari-Liis Maripuu	CIT Energy Management
Secretariat:	Petra Vladykova	Swegon Air Academy

*Background*

With an unrelenting drive to find ways to reduce energy consumption in our building stock, ventilation systems are not only necessary to maintain a healthy comfortable indoor environment, but there is also a need to consider different options to tailor the systems to deliver only what is needed and no more; Demand Controlled Ventilation.

*Scope*

The workshop will take a critical look at the state of DCV systems available today and the impact on a building's ability to provide a safe, healthy and comfortable climate despite stringent energy usage demands set not only by national bodies, but also environmental and energy labelling schemes. The workshop will focus on research about: the appropriate CO<sub>2</sub> based control; sensor placement and cost versus accuracy & reliability, experience with renovation, design and optimisation of DCV systems, pressure drop or air flow based control, variable flow control optimisation, monitoring and energy logging (iSERVcmb).

*Attendees*

Participants from industry, consulting, research and those with just sheer burning interest for the subject will be expected to contribute with their knowledge and ideas.

*Expected results*

An article will be written outlining a long wish list of research topics for both academia and industry to consider.

*Tentative Programme*

The concept of the workshop will be to draw up several points which the chair and co-chair have considered to be of importance to the future development of DCV systems.

*Discussion topic*

- DCV Intro and definition
- Energy and Economical evaluations
- Proxy and indoor climate
- DCV System technology
- Competence and knowhow
- Maintenance and operations