

## **AIVC - Workshop**

**„Is ventilation the answer to indoor air quality control in buildings?“**

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### **Speakers and affiliation**

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### **Title**

Suitable ventilation in schools – mechanical or natural?

### **Overview**

Rooms with high occupancy often have a poor room air quality and probably also poor thermal comfort due to inadequate ventilation. This is especially true if the room only has window ventilation, but also occurs in rooms with mechanical or hybrid ventilation respectively. To improve the design process for room ventilation which is both practical and adequate, practice measurements based on defined parameters are required. A meta study currently carried out by the authors looks into continuous CO<sub>2</sub> concentration curves measured during normal lessons in school rooms with various ventilation concepts and boundary conditions. The study is focussing on schools in German speaking countries. The influence of the actual ventilation regime on the CO<sub>2</sub> concentration level is established for a number of different room situations and ventilation strategies.

