

Technical session on “Emissions from naturally ventilated buildings” at CIGR World Congress 2010

During the coming CIGR World Congress in Quebec, 13 -17 June 2010, a technical session titled “Emission from naturally ventilated buildings (Measurement, modelling, reduction and assessment)” will be held. CIGR Section II is in charge of this planned technical session. , ref. CIGR Newsletter No. 83, p. 11-12.

Environmental impact of gas, odour and aerosol emissions from livestock buildings have been identified as important issues in the last decades. Considerable efforts have been extended to understand and solve these problems. Despite of this, there are still challenges for the agricultural engineers and scientists to solve the problems associated with emissions from naturally ventilated buildings.

The planned technical session is aimed at gathering the engineers and scientists in the field to discuss the latest achievements and to identify the research subjects and opportunities. The session will focus on the emissions from naturally ventilated buildings (e.g. animal houses, greenhouses, storage houses, manure storages etc.) associated with the following topics:

1. Field measurements, model experiments and computer simulation
2. Methods to quantify concentrations, ventilation rates and emissions
3. Methods to control ventilation rates and air flow in naturally ventilated buildings to control emissions, inside climate control or energy use
4. Methods to reduce gas, aerosol and odour emissions
5. Assessment of aerosol, gas and odour emissions

We would like to encourage all interested parties with expertise in this field to participate in the session. Your constructive participation will always be welcomed. You could participate in discussions, give presentations of your work and/or join the Planning-group that is in charge of this technical session.

Call for proceedings will be announced in spring 2009.

Contact person for the Planning-group:
Hisamitsu Takai
Senior scientist, Ph.D.
University of Aarhus, Faculty of Agricultural Sciences
Engineering Centre Bygholm
Test & Development
Post box 140
Schüttesvej 17-21, 8700 Horsens, Denmark
Mobile: +45 2266 9913
E-mail: hisamitsu.takai@agrsci.dk