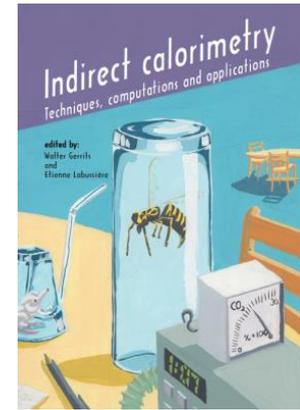


First announcement

Course on indirect calorimetry



Directly following the 5th International Symposium on Energy and Protein Metabolism and Nutrition in Krakow, Poland from September 12-15, 2016, **Wageningen University, the Netherlands (WU)**, and the **INRA, Rennes, FR** will jointly organize a workshop on indirect calorimetry and selected applications. The course will be held **on September 15-17, 2017 in Krakow**.

For whom?

The course is aimed at educating those (PhD students, technical staff, researchers) who use measurements of gaseous exchange (CO_2 , O_2 , CH_4 , etc) in their research program, and/or are setting up facilities in which those measures can be performed, either with or without climate control. Depending on the level of experience of the audience, we intend to provide lectures/practicals for advanced data analysis.

Organization

The organization will be a joint effort of Wageningen University and INRA and will be hosted by University of Agriculture in Krakow. Parts of the course will be taught by experts in the field from other institutions.

Preliminary program

In the course, attention will be paid to the basics of indirect calorimetry, i.e. i) setting up a calorimetry unit; ii) the measurement of gas exchange; iii) dealing with the data: Brouwer's equation and modelling techniques. Furthermore, selected applications will be presented and discussed, including i) combining calorimetry with stable isotope research; ii) combinations with heat and cold stress; iii) separating activity related from activity free heat production; iv) measuring methane emission in respiration chambers or using alternative techniques; v) measurement of metabolism during incubation and hatching of eggs. Depending on the level of experience of participants, parts of the course will be devoted to advanced data analysis.

The course will comprise lectures, computer practicals and dedicated sessions for exchanges between participants. We are trying to create an opportunity for hands-on experience.

The long-term objective

It is our ambition to establish an international platform for calorimetry, allowing its users to exchange expertise.

More information

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