

2010年度 農産加工学研究室 第4回Open Seminarのお知らせ

Presenter : Prof. Josse De Baerdemaeker

(Katholieke Universiteit Leuven, Belgium)

**Title : “A multi-scale approach to research
and innovation in biosystems engineering”**

Room: S-177, Faculty of Agriculture Building

Time and Date: 13:00~14:30, Dec. 6 (Mon), 2010

場所: 京都大学農学部総合館 S-177室

日時: 2010年12月6日(月)13:00~14:30

Abstract: It appears that the design and management of biological production and processing systems in order to meet the future needs of society is a formidable challenge for the engineering community. Indeed, there is an increased emphasis on the engineering for living systems that can be considered as a concurrent engineering between biology and mechanical, electrical, civil or information engineering. Agricultural and biological production systems are very complex where dynamic processes take place at different scales from sub-cellular level, the level of a plant or animals a field or a farm. These complex phenomena at each of these scales run at a different pace, they are often time variable non-linear in nature. Equipment should take these scales into account.

Moreover there is also spatial variability, implying that each tree, each location in a field or each animal may respond differently to treatments. This in turn requires that equipment can adapt to the spatio-temporal variable processes. A number of examples and challenges for the future are given with considerations of the expected benefits. They are based on research in Europe or at K.U. Leuven.

本セミナーは、学内外を問わずどなたでも参加自由ですので、興味を持たれている方がおられましたら、お誘い下さいますようお願い申し上げます。不明な点等がありましたら、地域環境科学専攻 農産加工学研究室、近藤(内線6170)までお知らせ下さい。