

**Q&T in charge of two European project proposals:
Smart Monitoring and Control (Lars Nørgaard)
and
NIR-OME-CONNECT (Lars Munck)**

Publications with peer review:

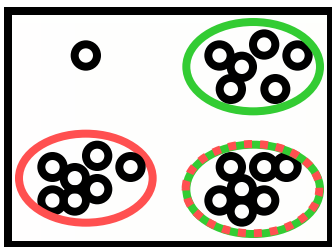
- L. Nørgaard, R. Bro, F. Westad and S.B. Engelsen. A modification of canonical variates analysis to handle highly collinear multivariate data. *J. Chemometrics* **20**:425-435, 2007.
- F.H. Larsen. Simulations of molecular dynamics in solid-state NMR spectra of spin-1 nuclei including effects of CSA- and EFG-terms up to second order. *Solid State Nuclear Magnetic Resonance* **31**:100-114, 2007.
- M.M. Nielsen, M.L. Damstrup, A.D. Thomsen, S.K. Rasmussen and Å. Hansen. Phytase activity and degradation of phytic acid during rye bread making. *Eur Food Res Technol* **225**:173-181, 2007.
- R.N. Jørgensen, L.K. Christensen and R. Bro. Spectral reflectance at sub-leaf scale including the spatial distribution discriminating NPK stress characteristics in barley using multiway partial least squares regression. *International Journal of Remote Sensing* **25**(5):943-962, 2007.
- F.H. Larsen, S. Rossano and I. Farnan. Order and disorder in titanosilicate glass by ^{17}O MAS, off-MAS, and 3Q-QCPMG-MAS solid-state NMR. *J Phys Chem B* **111**: 8014-8019, 2007.
- H.R.S. Moayeri, A. Ashouri, L. Poll and A. Enkegaard. Olfactory response of a predatory mired to herbivore induced plant volatiles: multiple herbivory vs. single herbivory. *J Appl Entomol* **131**(5):326-332, 2007.

Other Publications:

- N. Viereck, L. Nørgaard, R. Bro and S.B. Engelsen. Chemometric analysis of NMR data. In: *Modern Magnetic Resonance*. G.A. Webb (ed.), Springer, 1811-1821, 2007.
- S.B. Engelsen, H.T. Pedersen and R. Bro. Direct exponential curve resolution by SLICING. In: *Modern Magnetic Resonance*. G.A. Webb (ed.), Springer, 1823-1830, 2007.
- G. Lerche. Wooden small find 48: the 'ard'. In: *Place and Memory. Excavations at the Pict's Knowe, Holywood and Holm Farm, Dumfries and Galloway, 1994-8*. J. Thomas (ed.), Oxbow Books, Oxford, 116-117, 2007.
- M.M. Nielsen, N. Viereck & S.B. Engelsen. Phytic acid degradation by phytase - as viewed by ^{31}P NMR and multivariate curve resolution. In: *Magnetic Resonance in Food Science: From Molecules to Man*. I. Farhat, P.S. Belton and G.A. Webb (eds.), The Royal Society of Chemistry, UK, 214-222, 2007.

Media and Press:

- M.M. Nielsen, N., Viereck & S.B. Engelsen. Fytinsyre nedbrydning ved fytase. *Dansk Kemi* **87** (11):26-29, 2006.
- T. Janhøj, R. Ipsen, Petr Dejmek and F.v.d. Berg. Synerese i løbegeler. Forståelse og kvantificering. *Mælkeritidende* **5**:92-93, 2007.



Ph.D. defences:

Stine Kreutzmann – Quality of Carrots – A Chemical Approach to Understand the Sensory Variation – 25.06.2007 (Supervisors: Rasmus Bro & Mikael Agerlin)

Christian Zachariassen – Process Analytical Chemistry and Technology in Pectin Production – 28.06.2007 (Supervisors: Frans van den Berg & Søren Balling Engelsen).

Master defences:

Lanjun Zhang – Interfacial properties and flavor-binding of hydrolyzed alpha-lactalbumin. (Supervisor: M.A. Petersen)

Rikke Ingemann Wilken Christensen – Quality control of spices for spirits production. (Supervisor: M.A. Petersen)

Anh Dao Phan Thi - The effects of ripening stage and thermal treatments on aroma and nutrition of mango juice. (Supervisor: L. Poll). Anh Dao was the first student from a developing country (Vietnam) to graduate from our faculty (LIFE) under the auspices of a new PPP programme (Public Private Partnerships). She was sponsored by Arla Foods and the Danish Ministry of Foreign Affairs (Danida).

Staff:

Frans van den Berg spent June and July working at the Unilever Measurement Science, Colworth Science Park, Sharnbrook, Bedford, UK, as part of a Marie Curie FP6 program called Food Informatics.

Christian Lyndgaard Hansen – Ph.D. student – May 2007 – May 2010 – Process Analytical Technology (PAT) in the Dairy Industry (Supervisors: Frans van den Berg & Søren B. Engelsen)

Karina Topoliani Fife has left our group in order to assume new duties in the Food Chemistry group here at the Department of Food Science.

Guest Researchers:

Evrin Acar-Ataman – June/July 2007 – from Rensselaer Polytechnic Institute, USA - collaboration with Rasmus Bro

New Projects:

Courses:

Cool Climate Viticulture and Enology – Block 4 – 15 participants – L. Poll

ODIN – Fluorescence Spectroscopy – 19.4.07

Process Analytical Technology (PAT) – 6-11.5.07 - PhD course in collaboration with Center for Microbial Biotechnology, DTU – 17 participants – Rasmus Bro, Frans van den Berg, Søren B. Engelsen