

**Kick-off for the new Master of Science in Process Analytical  
Technology (PAT) hosted by Quality & Technology  
We welcome the first five students!**

**Publications with peer review:**

- L. Munck. A new holistic exploratory approach to Systems Biology by Near Infrared Spectroscopy evaluated by chemometrics and data inspection. *J. Chemometrics* **21**:10-11, 2007.
- Å. Rinnan, J. Riu and R. Bro. Multi-way prediction in the presence of uncalibrated interferences. *J. Chemometrics* **21**:76-86, 2007.
- L. Nørgaard, G. Sölétormos, N. Harrit, M. Albrechtsen, O. Olsen, D. Nielsen, K. Kampmann and R. Bro. Fluorescence spectroscopy and chemometrics for classification of breast cancer samples – a feasibility study using extended canonical variates analysis. *J. Chemometrics* **21**:451-458, 2007.
- E. Tønning, D. Polders, P.T. Callaghan and S.B. Engelsen. A novel improved method for analysis of 2D diffusion-relaxation data – 2D PARAFAC-Laplace decomposition. *J. Mag. Res* **188**:10-23, 2007.
- F. Westad, N.K. Afseth and R. Bro. Finding relevant spectral regions between spectroscopic techniques by use of cross model validation and partial least squares regression. *Anal. Chim. Acta* **595**:323-327, 2007.
- E. Acar, C. Aykut-Bingol, H. Bingol, R. Bro and B. Yener. Multiway analysis of epilepsy tensors. *Bioinformatics* **23**:i10-i18, 2007.
- J.H. Christensen and G. Tomasi. Practical aspects of chemometrics for oil spill fingerprinting. *J. Chromatography A* **1169**:1-22, 2007.

**Other Publications:**

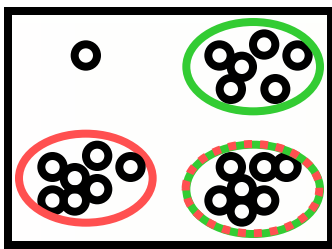
- R. Bro and S. de Jong. Editorial. Special issue in honour of D. Luc Massart (1941-2005). *J. Chemometrics* **21**:251, 2007.

**Media and Press:**

- P.H. Hansen. Ny bølge af avancerede målemetoder. *Ingeniøren*, p. 2-3. 28.9.2007 – about PAT and our MSc in PAT
- B.M. Mortensen. Hvad kan det bruges til? Spektroskopi og kemometri. *Mælkeritidende* 18:398-401, 2007 – article about the activities of the group, incl. PAT

**Courses:**

- Fødevarergrundkursus** (Blocks 1 & 2) - 97 participants. SB Engelsen & MA Petersen
- Exploratory Data Analysis/Chemometrics** (Blocks 1 & 2) - 50 participants. L Nørgaard
- Mad & Samfund** (Block 1 & 2) - 34 participants. Å Hansen & G Lerche
- Process Design of Experiments** (Blocks 1 & 2) – 5 participants. F vd Berg
- ODIN - Basic Chemometrics** - Aug 21-23 – 16 participants. L Nørgaard, R Bro, T Skov, K Kjeldahl
- ODIN – Introduction to Matlab** – Sept 25 - 5 participants. F vd Berg
- ODIN – Variable Selection** – Sept 26 – 8 participants. R Bro
- ODIN – Non-linear Methods** – Sept 27 – 7 participants. L Nørgaard, F vd Berg
- ODIN – How to Handle Chromatographic Data** – Sept 28 – 9 participants. T Skov



## Ph.D. defences:

### Master defences:

**Hui Siah Sze Silfverberg** – Quality indexing for lightly preserved meat products. Co-supervisor: T Skov – July 2007

**Mia Philipsen** – Early flavour experience of infants – Aroma compounds in mother's milk and infant formulas. Supervisors: MA Petersen & T Skov – July 2007

**Mette Skau Nielsen** – Cereal (1->3), (1->4)- $\beta$ -D-glucans – Functional properties and molecular interactions. Co-supervisors: BM Jespersen & SB Engelsen – July 2007

**Mette Holse** (CP Kelco) – Investigation of gelation kinetics of mixed HM and LM pectin by LF NMR and rheology. Supervisor: SB Engelsen – Aug 2007

**Mette Svendgaard Mortensen** (CP Kelco) – Investigation of gelation kinetics of mixed HM and LM pectin by LF NMR and rheology. Supervisor: SB Engelsen – Aug 2007

**Helle Tind Kristensen** (Arla/Danisco) – Impact of *Lactobacillus helveticus* on aroma formation in cheese studied in a model system. Co-supervisor: MA Petersen – Aug 2007

**Morten Arendt Rasmussen** – Variation in Danish milk explored by chromatographic and spectroscopic methods coupled with chemometrics. Supervisor: R Bro – Aug 2007

**Kamilla Christensen** (Danisco) – Development of flavours and oxidation products in dry fermented sausages – Influence of various antioxidants and starter cultures. Co-supervisors: MA Petersen & T Skov – Aug 2007

### Staff:

**Asta Venskaityte** has left Denmark to take up residence in England.

**Christian Zachariassen** – post doc – from 1.8

**Francesco Savorani** – post doc from the University of Bologna – from 1.8

**Giorgio Tomasi** has formally left our group, but continues his collaboration with our group through his position in the Dept. of Natural Sciences (LIFE).

**Leif Poll** has officially retired as of July 15.

**Marc Bassompierre** has left our group to assume a position at the National Environmental Research Institute (Danmarks Miljøundersøgelser) which is a part of the University of Aarhus.

**Marta Popielarz** – Ph.D. student – Aug 2007 – Aug 2010 (Supervisor: MA Petersen)

**Mette Holse** – research assistant – from 20.8

**Mette Skau Nielsen** – research assistant – from 27.8

### Guest Researchers:

**Davide Ballabio** – July – Sept – Post doc grant from Milano Chemometrics and QSAR Research Group, Università degli Studi di Milano, Bicocca, Italy – testing a new method for classification of multiway data with R Bro

**Uri Griner** - Aug 6 - Aug 17, 2007 – from POCARED Diagnostics Ltd., Israel – working on medical diagnostics with R Bro

**Ana Conesa** – Aug 6 – Sept 7 – bioinformatician from Centro de Investigación Príncipe Felipe, Valencia, Spain - investigating the application of N-way methodologies to functional genomics research – working with R Bro

**João Paulo Ataíde Martins** – Sept 9-15 - PhD Student from State University of Campinas, Brazil – to expand knowledge of multi-way data analysis and variable selection – working with R Bro