



Preliminary program

The 21. Norwegian Symposium on Chemometrics

Monday, March 8

0800-0900: Registration
0900-1200: Precourse 1
1200-1300: Lunch
1300-1600: Precourse 2
1500-1630: Registration
1630-1640: Welcome, Kristin Tøndel

Methods 1: PLS. Chair: Kristin Tøndel

1640-1700: Interpretation of partial least squares regression models by means of target projection and selectivity ratio plots, Olav M. Kvalheim, UiB
1700-1720: Truncated PLS, Kristian Liland, UMB
1720-1740: Squared prediction errors (SPE) in X, Rolf Ergon, Telemark University College

1800-2000: Dinner

Tuesday, March 9

Process 1. Chair: Tarja Rajalahti

0830-0915: Design Space Roadmap - From Development to Production, Lennart Eriksson, Umetrics AB, Umeå, Sweden
0915-0935: Multiproperty instrumentation at Mongstad refinery, Laila Stordrange, Statoil
0935-0955: Chemometric analysis of crude oil composition and fluid properties, Andreas Linge Tomren, UiB

0955-1010: Coffee break

Causality and Prediction. Chair: Harald Martens

1010-1055: Causality, time and pathways, Odd Aalen, UiO
1055-1115: Mapping of quantitative trait loci in Salmon, Lars Gidskehaug, CIGENE, UMB
1115-1135: Network smoothing of gene expression data, Guro Dørum, UMB
1135-1155: Solve Sæbø, UMB

1200-1300: Lunch

1300-1500: Excursion to "Dronningens utsikt"

Modelometrics. Chair: Lars Gidskehaug

1500-1520: Modelometrics – soft modeling of hard models, Harald Martens, Nofima Mat/UMB



1520-1540: Modelling time series data from mathematical models for circadian rhythms and heart function using multivariate analysis, Kristin Tøndel, CIGENE, UMB

1540-1600: A Shape Database for Fast and Objective Estimation of Complex Models, Julia Isaeva, UMB

1600-1615: Coffee break

Methods 2: Data management and interpretation. Chair: Heidi C. Henriksen

1615-1635: The null space method for finding patterns from optimal data, Johannes Jäschke/Sigurd Skogestad, NTNU

1635-1655: SDMS - Efficient management of your raw data and results, Anders Janesten, Waters

1700-1800: General assembly for the Norwegian chemical society's division for chemometrics

1830-1900: Reception

1900- Symposium dinner

Wednesday, March 10

Biochemometrics. Chair: Harald Martens

0900-0945: Modelling light scattering in FTIR spectroscopy of cells and tissues, Achim Kohler, Nofima Mat

0945-1005: Analysis of -omics data: Graphical interpretation- and validation tools in multi-block methods, Sahar Hassani, Nofima Mat

1005-1025: Sample selection in an experimental consumer study on dry cured ham, Valérie Lengard, Nofima Mat

1025-1040: Coffee break

Classification and Imaging. Chair: Maths Halstensen

1040-1125: Methods of discrimination and classification, regularization and weight assignment, El Mostafa Qannari, E.N.I.T.I.A.A/ I.N.R.A, Nantes, France

1125-1145: Hyperspectral low-light camera for macroscopic imaging of biological samples, Julio Hernandez, UiO/ Norsk Elektro Optikk

1145-1205: Testing the robustness of multivariate hyperspectral classification models using advanced 3D scene simulation, Bjørn K. Alsberg/André Joly, NTNU

1205-1305: Lunch

Process 2. Chair: Laila Stordrange/ Valérie Lengard

1305-1325: Acoustic chemometrics and representative sampling for determination of volume fractions in oil/gas flow, Ihunegbo Felicia Nkem, Telemark University College



1325-1345: Estimation of volume fractions in two-phase flow systems based on acoustic chemometrics, Benjamin Kaku Arvoh, Telemark University College

1345-1405: Maintenance of PLS-models, Knut-Inge Paulsen, UiB

1405-1420: Coffee break

1420-1500: General discussion

1500-1510: Symposium closing, Kristin Tøndel