

BCS WORKSHOP

Transfer and Maintenance of on-line NIR Calibration models

18th December 2008

ExxonMobil Chemical Europe
Hermeslaan, 2
B-1831 Machelen

Organisation:

The Belgian Chemometrics Society

http://chemometrie.kvcv.be

Context

The last two decades, the use of NIR spectroscopy has increased tremendously. In many industrial areas, companies opt for (on-line) NIR calibration models as an alternative to time-consuming and expensive lab analyses. This is often the case throughout the whole production process: to check the quality of the feedstock at delivery, to obtain timely information on different process streams, and to quantify the quality of the end product.

Since fluctuations in process conditions, ambient conditions, raw materials, instrument performance, etc. are to be expected in the long run, on-line calibration models need to be continuously monitored and validated periodically. The presentation of **Cees Elenbaas** will illustrate how this so-called maintenance of on-line calibration models is done at Total.

Nevertheless, it is sometimes necessary to adapt on-line models to new 'conditions'. **Pierre Dardenne** will give a theoretical introduction on the Transfer of calibration models, with practical applications.

Bart Nicolai will highlight the importance of the transfer of calibration models for the prediction of apple maturity.

Agenda

- 13.30 Welcome Coffee at ExxonMobil Chemical
- 14.00 Transfer of NIR Calibration models

 Pierre Dardenne, Quality of Agricultural

 Products department, CRA-W, Belgium
- 14.45 Calibration transfer in apple maturity prediction by means of NIR spectroscopy

 Bart Nicolai, Katholieke Universiteit
 Leuven, Flanders Centre of Postharvest
 Technology BIOSYST-MeBioS
- 15.15 Coffee Break
- 15.45 Validation and control of the performance of multivariate process infrared spectrophotometers

 Cees Elenbaas, Total Raffinaderij
 Nederland
- 16.30 Reception

Venue

The workshop will be hosted by ExxonMobil Chemical Europe in Machelen.

Date of the workshop

December 18, 2008

Fee

Participation to this workshop is €50, exclusive VAT.

Registration

Registration is done by filling in the registration form at the website of the BCS (http://chemometrie.kvcv.be/).

How to get to ExxonMobil Chemcial Europe

Coming from the East: take the E40, and then the ringroad north. Stay on the right and take the first exit (Zaventem, NOT the airport). At the traffic light at the end of the exit, take a left, continue through the next traffic light until the roundabout, and take a left. EMC is then at the right in front of you! So you will need to drive around the building to get to the visitor parking lot!

Coming from the South: take the Brussels-ringroad direction north, then the exit Zaventem (just before the airport exit). At the traffic light at the end of the exit, take a left, continue through the next traffic light until the roundabout, and take a left. EMC is then at the right in front of you! So you will need to drive around the building to get to the visitor parking lot!

Coming from the North or West: take the Brussels-ringroad direction east, and then the exit Zaventem / Brussels, stay at the right, and then take the first exit Diegem. At the traffic light at the end of the exit, take a left. At the roundabout, take a right. EMC is then at the right in front of you! So you will need to drive around the building to get to the visitor parking lot!

The Belgian Chemometrics Society

The Belgian Chemometrics Society (BCS) operates as a section of the Royal Flemisch Chemical Society (KVCV) and aims at promoting Chemometrics in Belgium with special attention for the interaction between academia and industry. Its main activity is the organisation of workshops and a bi-annual symposium.

Not a BCS member yet? You are very welcome to join! Just drop a line to chemometrie@kvcv.be

BCS Committee members:

Thomas De Beer
Pierre Dardenne
Bieke Dejaegher
Juan Antonio Fernández Pierna
Mauritz Kelchtermans
Kristine Ooms
Wouter Saeys
Bas van den Bogaert
Piet Van Espen