Alpha MOS Application Training 2018
Heracles Neo Applications

Date
From Monday 15th October 2018 (2:00 pm) to Thursday 18th October 2018 (17:30 am)

Course description
Main topic of the training is Heracles II/Neo and Iris application training:

- How to use IRIS for color and shape applications?
- How to start and check the Heracles?
- How to develop a good application in one day?
- How to optimize a method? Search in AroChemBase?
- Application training and practice on Heracles system
- Basic knowledge in multidimensional statistics

The training will be divided between theory (Power point presentation) and workshops (groups of 2 persons) in the laboratory on Heracles II/Neo and Iris instruments.

Duration: 3.5 days of theory and practice

Language
English

Attendees
The courses are intended to any users of Heracles e-nose and Iris e-eye systems including beginners, customers, service engineers and application engineers of Alpha MOS representatives and teams.
The course is limited to 8 participants (one engineer per company maximum)

The participants should bring a laptop computer (Windows 7 with administrator rights exclusively) for practical exercises on data treatment with AlphaSoft.

Schedule and location
Courses will be held at Alpha-MOS, Alpha MOS - Immeuble Le Colombus- 4 rue Brindejonc des Moulinais 31500 TOULOUSE - FRANCE (France). Detailed schedule is presented in the next pages.

Practical information
The course fees are set at 1 500€ /participant. The course will be free of charge for Alpha MOS distributor teams. Travel and accommodation remains at the charge of attendee's company (a list of hotels can be provided).

Course registration
Registrations shall be sent to Alpha-MOS by e-mail: herve.lechat@alpha-mos.com before October 5th, 2018. Alpha-MOS keeps the right to cancel a course if the number of participants is too low. An acknowledgement of the registration will be sent. Please, do not make any travel reservations until we give green light for the course.

Iris Application

Day 1: Monday (October 15th, 2018)

14:00 – 14:30 Welcome, Introduction Participants

14:30 – 16:00 Iris Usage
- Lens installation
- Iris start-up
- Diagnostic (focus and diaphragm)
- AlphaSoft overview

16:00 – 16:15 Break

16:15 – 17:30 Applications
- Method creation
- Image acquisition
- Image pretreatment
- Shape analysis
- Color analysis
- Data treatment
- Model creation

Heracles Application

Day 1: Tuesday (October 16th, 2018)

9:00 – 10:30 Theory on Heracles e-nose
- Working principle
- Method creation (ready-to-use method)
- AlphaSoft presentation

10:30- 10:45 Pause

10:45 – 12:30 Routine user workshop on instrument
- Instrument Start-up
- Autotest and Diagnostic
- Method creation
- Kovats calibration
- Prepare samples and create a full sequence
- Sample preparation
- Start the analysis

12:30 – 14:00 Lunch

Model Development

14:00- 17:30 Model development workshop

- Raw Data importation and examination
- Library creation
- Automatic grouping
- Principal Component Analysis (PCA)
- Sensor selection
- Sensory ID
- Model creation
- Inclusion of model in a method
- Run of new sample on this method
- MMI-Pro software

Day 3: Wednesday (October 17th, 2018)

Method Optimization

9:00 – 10:30 Method description (expert level) & headspace theory

10:30- 10:45 Pause

10:45 – 12:30 Method optimization workshop

- Sensitivity optimization
- Time optimization
- Resolution optimization

12:30 – 14:00 Lunch

AroChemBase

14:00 – 16:00 AroChemBase workshops

- Principle
- Data collection
- Customized library
- Search engine

16:00- 16:15 Pause

16:15 – 17:30 Quantification of selected compounds

- Standard addition to confirm a compound's identity
- Calibration
- Quantification

Day 4: Thursday (October 18th, 2018)

Multidimensional Statistics Theory

9:00 – 10:30 Multidimensional statistics theory

10:30- 10:45 Pause

10:45 – 12:30 Multidimensional statistics workshop
- Principal Component Analysis
- Work on examples

12:30 – 14:00 Lunch

Applications Types

14:00 – 16:15 Type of applications
- Quality control
- Sensory quantification
- Shelf life
- Off-odor investigation
- Benchmarking

16:15- 16:30 Pause

16:30 – 17:00 Debriefing

17:00 End of main training session