Theory and Practice of Gas Chromatography-Olfactometry for Identification of odorants

This two day training course will lead you in to the world of olfaction and sniffing. Experience how small concentrations of odorants smell and learn how to set up methods to evaluate your sample on odorants!

This training is suitable for all people working in a laboratory where new products are developed or in QA/QC departments. Here GC-O is either already an available technology or can be a future new tool to support the quality of the work. Moreover this training is very suitable for sensory teams (taste as well as smell) who want to go to the next level in odour evaluation.

The general outline of this valuable training course is:

1. Introduction into GC-O
   - Principle of GC-O
   - Key definitions: odour active value, odour threshold value

2. Why GC-O?
   - GC-O fields of application

3. Sensitivity and Repeatability

4. Execution of GC-O analysis
   - Prerequisites, room conditions, breathing techniques
   - Identification and quantification of aroma compounds
   - Retention index (RI)
   - Off-notes
   - Sample preparation

5. Training sessions
   - Training of differentiated odor reception and wording (10-12 odorants, sniffing sticks)
   - Performing GC-O Analysis
     - GC-O analysis with identity evaluation
     - Identification of aroma compounds (aroma character, retention index)