

## Featured workshops hands-on PTR-MS 2019

According to your selection of workshops, you will be assigned to groups taking into account the PTR-TOF instrument you work with and your skill level.

You will be able to attend **up to 6 workshops**.

Please note that the final program schedule and your personal workshop assignment is made when the majority of participants will have registered. Although we will do our best to take into account your choices when making your personal schedule, spaces in particular workshops cannot be guaranteed and substitutions may be offered. Thank you for your understanding!

### WS 1: "Under the hood" – Getting to know your PTR-TOF

- Vacuum System and Electrical Setup of PTR-TOFMS
- Hardware parts of the instrument (gauges, pumps, control unit, ...)
- The IONICON PTR-specific parts (ion Source, reaction chamber/drift tube)
- The TOF-MS explained
- Functions of and Interaction between the components

### WS 2: Getting started with your PTR-TOF

- Working principle of the IONICON PTR technology (ion source and the reaction chamber/drift tube)
- Working principle of the PTR-TOFMS
- Introduction to software
- Start-up of measurements
- Important parameters checklist
- Reagent ions switching (SRI/SRI+)
- E/N variation

### WS 3: Optimizing the PTR-TOF

- Performance parameters of instrument and how to tune them
- Optimization of the ion source
- Set-point of the detector
- Transmission measurement
- Optimization of sampling-setup (Inlet, sample, ...)

#### **WS 4: PTR-TOF Calibration**

- Introduction to calibration (theory)
- k-rate and sensitivity
- Calibration of PTR-MS with gaseous and/or liquid standards
- Determination of limit-of-detection (LoD) and limit-of-quantification (LoQ)
- Calibration devices such as the Liquid Calibration Unit (LCU)

#### **WS 5: Basic Data Processing for PTR-TOF**

- Import data file in project
- Mass calibration
- Compound identification
- Peak definition
- User-defined spectra
- Advanced analysis (compare spectra, 3D view, data export, SRI...)

#### **WS 6: PTR-TOF maintenance**

- Maintenance of turbomolecular pumps (lubricant reservoir exchange)
- Maintenance of diaphragm pumps
- Cleaning and maintenance of a pressure gauge
- Exchange of the detector
- Cleaning and exchange of the ion source

#### **WS 7: Measurement automation**

- Simple- and advanced measurement automation software
- Automating IONICON add-ons
- AME: Software for Automated Measurement and data Evaluation

Discounted early pricing available until September 30.  
[Sign-up for "hands-on PTR-MS 2019" and 3rd IONICON User Day!](#)