Phenomenex Method optimization and HPLC troubleshooting Seminar Agenda 13.10.2023

09:30 - 10:00 Registration

10:00 – 11:30 Part 1: Optimizing validated methods to enhance lab productivity, improve method stability, and reduce costs

- Drivers and Considerations for Optimizing Validated Methods
- Ph. Eur and USP General Information
- Choose of Suitable Columns for Monograph Methods
- Harmonisation Ph. Eur. Chapter 2.2.46 and USP 621
- Adjustment of Chromatographic Conditions
- Regulations of Isocratic and Gradient Elution in HPLC
- Criteria for System Suitability

11:30 - 11:45 Coffee break

11:45 – 13:15 Part 2: Optimizing validated methods to enhance lab productivity, improve method stability, and reduce costs

- Method Optimization via Variation of Particle Size, Particle Morphology, Column length and Flow Rate
- From HPLC to UHPLC
- Several Case Studies Detailing the Optimization of Pharmacopoeia Methods

13:15 - 14:15 Lunch break

14:15 – 15:45 Part 1: HPLC Troubleshooting

- 1. General Approach
 - General Troubleshooting Approach
 - System Problems & Preventive Maintenance
 - General Chromatographic Problems
 - Peak Shape Issues
- 2. System Problems and Preventive Maintenance All parts of the HPLC System
- 3. General Chromatographic Problems
 - Pressure
 - Leaks
 - Variable Retention Times
 - Quantitation and Data Quality
 - Baseline

15:45 - 16:00 Coffee break

16:00 - 17:00 Part 2: HPLC Troubleshooting

- 4. Peak Problems
- 5. Questions

