**PHI Data Reduction Training September 23, 2021**

**PHI XPS MultiPak Training**

9am-11am

**Session 1. Spectral analysis and quantification**

This session will cover: basic MP operations, display properties; automatic and manual peak identification; periodic table operations; quantification theory; quantification of survey spectra and high resolution spectra; background types; smoothing and shifting spectra; exporting quantification; basic chemical analysis.

11am-1pm

**Session 2. Curve fitting XPS spectra**

This session will cover: peak properties; setting up curve fit parameters; changing default properties; saving and exporting curve fits; fitting doublets; fitting asymmetric and symmetric peaks; using curve fits for quantification; handling overlapping peaks; curve fitting multiple spectra.

1pm-3pm

**Session 3. Processing depth profiles**

This session will cover: quantification, shifting and smoothing spectra; adding and removing elements; converting time to depth; montage spectra display; curve fitting depth profiles; LLS processing; exporting depth profiles.

3pm-5pm

**Session 4. Tips and tricks in MP**

This session will cover: PowerPoint™ connection; stack plots; selecting spectra; processing UPS spectra; edge tools; deconvolution; intro photo and SXI tools; map processing; handling ADXPS data in StrataPHI; depth profile appender; combining individual SPE files in depth profile and ANG profiles in UniPHI.

**PHI TOF-DR Training**

11am-1pm

**Session 1. Spectral analysis and processing**

This class will cover the topics of spectral evaluation and calibration; hints and guidance for data interpretation; peak identification; isotopic characterization and validation; mass shift correction; and batch processing.

1pm-3pm

**Session 2. 2D and 3D analysis and image processing**

This class will cover the topics of regions-of-interest in 2D & 3D; large area mosaic mapping; image drift correction; mass shift correction; concatenation; sputtering and tomographic 3D imaging.

3pm-5pm

**Session 3. Depth profile analysis, evaluation and data processing**

This class will cover the topics of reproducibility; qualitative and quantitative aspects; buried interfaces; normalization; sputter rates and depth scaling.

**COST**

 **Academia Industry**

1 session 75 130

2 sessions 140 250

3 sessions 195 360

4 sessions 230 450

For registration and credit card payment, please contact Anne Wilson at 952-828-6120