

Description OPUS Courses 2019

■ FTIR Interpretation Course

(Mon., 02.09.2019)

Held by Hr. Gremlich, Novartis

- ♦ Identifikation + interpretation of IR spectra of organic molecules

■ FTIR Spectroscopy in Industry

(Examples and Evaluation)

(Wed., 04.09.2019)

- ♦ Advanced measurements, parameters
- ♦ Peak picking, comparing spectra
- ♦ Library search, extensions, create own libraries
- ♦ Integration and univariate quantification (QUANT1)
- ♦ Plot, Layout



■ Setup of Chemometric Models for Identification/Quantification

(Thu., 05.09.2019)

- ♦ Data pretreatment
- ♦ IDENT-Algorithm
- ♦ Factorization
- ♦ Identity check, Choice of samples
- ♦ Build/Optimization of QUANT2-methods
- ♦ Robustness of calibration models
- ♦ Implementation of IDENT and QUANT in OPUS/LAB and multi-evaluation models



■ Process Control in Industry

(Fri., 06.09.2019)

- ♦ Create scenarios, cyclic measurements
- ♦ Process control, online reaction monitoring, CMET
- ♦ Implementation of different models (QUANT, IDENT)
- ♦ Calibration transfer
- ♦ Statistical evaluation (e.g. slope, variance, moving block, ...)
- ♦ Hands on session with a MATRIX spectrometer, exercises

