

Workshop: 'Characterization of Synthetic and Natural Macromolecules'

Place: CEITEC VUT, Purkyňova 656/123, Brno, 624 00, building S

Date: 5.12.2022, 9:30 - 15:30

Workshop program:

Registration: 9:30 – 10:00

Coffee break: 9:30 – 10:00

I. Lecture block:

1. **10:00 Lucy Vojtová** (CEITEC VUT Brno)
Characterization of biopolymer matrices in the AT-CZ bilateral project Techbikom (20 min)
2. **10:20 Franz Zeppetzaer** (Wood K plus - Kompetenzzentrum Holz GmbH, Austria)
Antioxidant activity and characterization of Picea abies bark extracts (25 min)
3. **10:45 Štěpán Podzimek** (Wyatt Technology and SYNPO Pardubice)
The Applications of Light Scattering for the Characterization of Synthetic and Natural Polymers (35 min)
4. **11:20 Libor Kostka** (ÚMCH AV Praha)
Water-soluble drug delivery carriers and their proper characterization (25 min)

Lunch 11:45 – 12:35 (50 min.)

II. Lecture block:

5. **12:35 Michal Kalina** (FCH VUT Brno)
Characterization of molecular weight and conformation of soluble fractions of natural organic matter isolated from soils and sediments (25 min)
6. **13:00 Jana Brtníková** (CEITEC VUT Brno)
Possibilities of using SEC-MALS for the characterization of synthetic and natural molecules (15 min)
7. **13:15 Pavel Šmejda** (PerkinElmer)
Using of MS detector in GC: principle and application (25 min)
8. **13:40 Jana Brtníková** (CEITEC VUT Brno)
Possibilities of using GC-MS with HeadSpace for the characterization of synthetic and natural molecules (15 min)

Coffee break: 13:55 – 14:10 (15 min.)

9. 14:10 1. *Tour of the chromatography laboratory CEITEC Nano (25 min)* – room B2.19
10. 14:35 2. *Tour of the chromatography laboratory CEITEC Nano (25 min)* – room B2.19
11. 14:50 3. *Tour of the chromatography laboratory CEITEC Nano (25 min)* – room B2.19