



INTERNATIONAL PLANT SPECTROSCOPY CONFERENCE

PRE-CONFERENCE SESSIONS

2024 September 23



University of Natural Resources and Life Sciences (BOKU)
Vienna, Austria

THE PRE-CONFERENCE SESSIONS AIM TO

- ◇ give you theoretical background in vibrational spectroscopy (workshop 1)
- ◇ share practical experiences on Raman imaging (workshop 2)
- ◇ train you in hyperspectral data analysis (workshop 3)

1) THEORETICAL WORKSHOP ON VIBRATIONAL SPECTROSCOPY

B. Hinterstoisser and H.G. Löw will give you the necessary background to deepen your understanding of vibrational spectroscopy and also explain and show you the most relevant instrument parts.

+ 10:00 - 13:00

80 €

free places: 10

2) PRACTICAL WORKSHOP ON RAMAN IMAGING

N. Gierlinger, P. Charalambous and G. Tiloca will guide you through the whole Raman experiment from cutting microsections to embedding of the samples and choosing the right Raman acquisition parameters. We will work with LEICA cryo-microtome and on a WiTEC 300RA. Upon request it might be possible to work with your own samples.

+ 10:00 - 13:00

80 €

free places: 8

3) DATA-ANALYSIS WORKSHOP: Identifying (pure) components in Raman and/or IR images

H. Lohninger will give you a short introduction to hyperspectral imaging and Epina ImageLab software, followed by "Hands-on" sessions to 1) build classifiers for specific target substances 2) endmember detection and spectral unmixing. Participants should bring their computer and are encouraged to train in the "hands on" sessions. All participants will receive a free 3-month license for Epina ImageLab until the end of 2024.

+ 14:00 - 19:00

160 €

free places: 10