Sunday, September 8th, 2024

15.00 – 17.00 Check-In (In case you arrive later than 5pm, please let me know per email in advance !)
18.00 - 19.00 Dinner
19:30-19:35 Opening remarks
19.35 – 20.35 **Norbert Müller:** NMR, what else?

Monday, September 9th, 2024

9.00 - 10.15 **Klaus Zangger:** Introduction into 1D- and 2D-NMR Spectroscopy
10.40 - 11.55 **Herbert Kogler:** Deriving Structural Information from NMR spectral data

13.00 - 14.00 **Lothar Brecker:** Tutorial "Basics of NMR-Spectroscopy - Part 1"

The list of exercises and tutorials will be changed according to the needs of the participants – the titles given below should give you a flavor of what is planned !
14.15 - 16.00 **Exercises:**
Group 1: **Lothar Brecker:** Interpretation of 1D- and 2D-NMR Spectra (Part 1 Interpretation)
Group 2: **Wolfgang Schöfberger:** From Spectra to Structures
Group 3: **Herbert Kogler:** Assignment and structure elucidation using realistic spectra
Group 4: **Klaus Zangger:** Interpretation of 1D- and 2D-NMR Spectra (Part 1)
Group 5: **Harald Maid:** 1D- and 2D-NMR Interpretation

16.30 – 17.55 **Lothar Brecker:** Tutorial "Basics of NMR-Spectroscopy – (Part 2 Theory)"
19.00 - 20.00 Meeting of the Working Party "NMR-Spectroscopy" within the Austrian Chemical Society
20.00 - ? Informal get-together

Tuesday, September 10th, 2024

9.00 - 10.15 **Wolfgang Holzer:** Techniques for Heteronuclear Correlations
10.40 - 11.55 **Norbert Müller:** Description of NMR-Experiments using Product Operator Formalism

14.00 - 16.00 **Exercises:**
Group 1: **Lothar Brecker:** Interpretation of 1D- and 2D-NMR Spectra (Part 2)
Group 2: **Norbert Müller:** Product Operator Formalism
Group 3: **Herbert Kogler:** Assignment and structure elucidation using realistic spectra
Group 4: **Wolfgang Schöfberger**: From Spectra to Structure

16.30 - 17.55 **Norbert Müller:** Phase Cycles and Gradients

19.00 – open end **Exercises:**
Group 1: **Wolfgang Robien:** Spectrum Prediction, Structure Verification and fully Automatic Structure Revisions (own laptop strongly recommended)
Group 2: **Norbert Müller:** Product Operator Formalism and Phase Cycles
Group 3: **Wolfgang Holzer:** Interpretation of 2D-Correlation Spectra
Group 4: **Harald Maid:** 1D- and 2D-NMR Interpretation

Wednesday, September 11th, 2024

9.00 - 10.15 **Lothar Brecker:** Relaxation and Nuclear Overhauser Effect
10.40 - 11.55 **TBA**

13:00 - 14:15 **Reinhard Wimmer:** Gradients in NMR-Spectroscopy

14.30 - 16.00 **Exercises:**
Group 1: **Lothar Brecker:** Interpretation of 1D- and 2D-NMR Spectra (Part 3)
Group 2: **TBA**
Group 3: **Klaus Zangger:** Interpretation of 1D- and 2D-NMR Spectra (Part 2)

16.30 – 17.45: **Reinhard Wimmer:** Metabolomics by NMR - a Rapidly Emerging Field

19.00 – open end **Exercises:**
Group 1: **Herbert Kogler:** Assignment and structure elucidation using realistic spectra
Group 2: **Harald Maid:** 1D- and 2D-NMR Interpretation

Thursday, September 12th, 2024

9.00 - 10.15 **Daniel Mathieu:** Assignment Strategies for Peptides and Proteins
10.40 - 11.55 **Mario Schubert:** Assignment Strategies for Oligosaccharides

14.00 - 16.00 **Exercises:**

Group 1: **Daniel Mathieu:** Exercises to "Assignment Strategies for Peptides and Proteins" on paper
Group 2: **Reinhard Wimmer:** CARA - A Program for Assigning Protein Spectra (own laptop strongly recommended)
Group 3: **Mario Schubert:** Assigning spectra of oligosaccharides (own laptop strongly recommended)

16.30 - 17.55 **Daniel Mathieu:** Tutorial "Fast Data Acquisition in NMR-Spectrsocopy"

19.30 – 20.30: **TBA**

Friday, September 13th, 2024

Please check out BEFORE 9am! The luggage can be stored in a dedicated place.

9.00 – 10.15: **Tobias Madl:** Calculating molecular structures from NMR data
10.40- 11.55: **Wolfgang Robien:** Computer Application during the Structure Elucidation Process
12.00 Lunch and Closing Remarks