NMR TRAINING CLASS: AVANCE-800/600/500 LAB TOPICS

Lab meeting #1:
Safety information Introduction
Unix; Topspin Overview
Getting & Saving datafiles
Processing data; Inspecting data
Plotting data (hard copy)

Lab meeting #2:
Audible FID
Setting up for data collection
Proper FID acquisition parameters Acquiring data
Apodization and other data processing

Lab meeting #3:
Routine Proton and Carbon training
Sample changing
Probe tuning Lock Shimming
Setting gains
Pulse calibration

Lab meeting #4:
Using Parameter Sets
T1 Measurement
T2 Measurement

Lab meeting #5:
Advanced 1D NMR experiments:
Homo-nuclear decoupling
Solvent saturation
1D NOE

Lab meeting #6:
2D experiments COSY HSQC HMBC H2BC

Lab meeting #7:
Heteronuclear spectra (C13, P31, F19, B11)
C13 spectra with NOE, with decoupling, with decoupling & NOE

Lab meeting #8:
2D experiments continued.
NOESY
Variable temperature
Data Archival
Trouble-shooting

Lab meeting #9:
Solids

Lab meeting #10:
Review, practice