

Obtaining Access to the UCLA Molecular Instrumentation Center NMR and EPR Spectrometers

All members of the UCLA community may use the NMR spectrometers after training by the NMR lab personnel. For routine usage, regularly scheduled training sessions are offered every week. It is strongly recommended that potential users come to these sessions near to the time when they anticipate actual usage. These are not sessions on NMR theory; they cover only what is needed to efficiently use the current equipment and its associated software. Going through these sessions to “get them out of the way” for later usage is a waste of everyone’s time. The weekly schedule is given below. If you cannot attend the regularly scheduled sessions due to schedule conflicts, contact Dafni Amirsakis (dafni@chem.ucla.edu) to be referred to the appropriate staff member to schedule a special session for you. Users from Departments other than Chemistry and Biochemistry must contact Arlette Silva (avs@chem.ucla.edu; X50821) to establish an account for recharge prior to use of the spectrometers.

Routine Data Processing with Topspin

Mondays 10:00 A.M. to 10:30 A.M. – 1416 Mol. Sci.

Routine Data Processing with Xwinnmr

Please email Tioga Martin at tioga@chem.ucla.edu to schedule this. (We expect to replace all computers running Xwinnmr soon. Thus, if you do not need to use the 500 MHz systems soon, we suggest that you not bother with this.)

Automation using the Sample Changer

Tuesdays 10:00 - 11:00 A.M. - 1421 Mol. Sci.

Manual Data Acquisition with Topspin

Thursdays 10:00 A.M. to 12:00 noon – 1421 Mol. Sci.

(You must pass the Topspin Data Processing test prior to Wednesday at 10:00 A.M. to be assured of spectrometer time for this training on Thursday!)

Manual Data Acquisition with Xwinnmr & Probe Tuning

Fridays 10:00 A.M. to 12:00 noon – 1421 Mol. Sci.

Manual Data Processing with Topspin training is a prerequisite. (See remarks above about Xwinnmr) You must pass the Xwinnmr Data Processing test prior to Thursday at 10:00 A.M. to be assured of spectrometer time for this training on Friday!

Using the 600 MHz spectrometer

Email Bob Taylor at taylor@chem.ucla.edu for training on the 600. Manual Data Acquisition with manual Probe Tuning is a prerequisite!

Using the 300 MHz Solid-State NMR Spectrometer

Email Bob Taylor at taylor@chem.ucla.edu for training on the solid-state NMR

Variable Temperature

Email Jane Strouse at strousej@chem.ucla.edu for variable temperature training. Manual Data Acquisition training is a prerequisite.

Using the EPR spectrometer

Email Bob Taylor at taylor@chem.ucla.edu for training on the EPR.

It is recommended that for routine NMR usage, the first training should be “**Automation using the Sample Changer**”. This will provide rapid access to routine spectra. Most users will need to re-process their data at least occasionally. Thus, the “**Data Processing with Topspin**” training should probably be taken at some time. (The order of the sample changer and data processing training sessions does not matter at all.) If you need to acquire data manually, most users start with the AV300. You must practice data processing with Topspin prior to attending the “**Manual Data Acquisition with Topspin**” session. (If you plan to use the 500 MHz spectrometers and have already been trained to use the AV300, you must first attend the “**Routine Data Processing with Xwinnmr**” training, then the “**Manual Data Acquisition with Xwinnmr & Probe Tuning**” training. (See remarks above about Xwinnmr))

Since these sessions are offered every week, you will not have to wait long to attend the session you need when you need it. If you have not used the spectrometers for a while and feel the need for a refresher, please attend the appropriate session(s) again.