

## Aspect-400 User Rules

Before using the 400 MHz NMR, you must have been checked out by either Dr. Bradley, Mencer, Peters, or Trujillo, have been granted authorization, and have agreed to these rules.

Sign the log book when you start and finish, and indicate if there were any problems.

Teaching labs have priority on the instrument: be aware of their schedule (typically afternoons and all day Thursday). Long runs (over 1 h) are best relegated to evenings.

Samples must be prepared before coming to the NMR room: handle chemicals in a laboratory, not the NMR room.

All samples should be wiped and checked in the depth-gauge before introduction into the magnet. Never insert a sample into the magnet without a spinner.

Log out promptly and return the ethylbenzene standard to the magnet when done. This especially applies to overnight or automated runs.

If leaving the NMR while a run is acquiring, indicate an estimated completion time in the log book.

Do not leave samples (*especially unlabeled ones*) unattended, unless they are waiting to be run in the sample-changer.

Remove samples promptly from the changer after they have run.

After automated runs, be sure to manually lock on the standard (Lock CDCl<sub>3</sub>), to prevent the lock power from setting itself to the maximum.

Should a sample break in the probe, call Dr. Mencer or Trujillo immediately for help, and leave a sign by the computer stating that the instrument should not be used.

Do not undertake repairs, adjustments, cryogen fills, or other manipulations.

Do not bring metal objects or tools near the magnet, as they may strike it. *Do not bring paper-clips or staples to the NMR area.*

Do not strike, lean on, or push the magnet — this may cause a quench.

Do not remove the vent-stacks or other hardware from the magnet.

Do not remove the probe or disconnect the cables to it.

Do not install software on the NMR computer.

The Administrative account should only be used for administration. Do not obtain routine spectra from it.

Do not reboot the computer or shut down the NanoBay.

Do not perform Variable Temperature experiments without authorization and supervision. VT experiments can badly damage the probe.

I have read the NMR User Rules above and will abide by them.

Name: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_