

NMR Newsletter v4

<http://nmr.chem.umn.edu> ← lots of good stuff here

Spectrometer Status

HD-500 (Bruker Avance III HD)

The Prodigy cryoprobe will be back next week. The spectrometer will be unavailable from mid-morning Monday through Tuesday (June 2-3) for installation and calibration. The BBO probe currently in use will then be sent back to Bruker to complete its repair.

Upon the Prodigy's return to service, we will resume our Wednesday morning 2-hour maintenance schedule (for refilling the 100-L liq N₂ tank). The instrument is not operational during maintenance since the probe is not being actively cooled.

Do not use Norell XR-55, "disposable" type, or flat-bottomed NMR tubes on this instrument as they may break the delicate cryoprobe.

VI-300 (Varian Inova)

The VT probes have been returned. We are currently using the 4-nucleus probe tuned to H₁, F₁₉, C₁₃ and P₃₁.

Please note that the autosampler is *only* being run in automated mode when there are samples from CHEM 2311.



Training

There is a new combined NMR training quiz on the website. If you have only had autosampler training, use this one. Satisfactory completion of this quiz will get you on the list for both Varian and Bruker training sessions. Answers are readily available on our website and through "the google."

If you have already had Varian training, just complete the Bruker quiz.

Grants

We have submitted an infrastructure upgrade grant to the University requesting two new 400 MHz spectrometers to replace the 200, and eventually the other older instruments. We hope to hear positive news at the end of June.

PI = Chris Douglas.

Thanks to Jodi Ogilvie, Bill Tolman, and Reed Eisenhart for editorial assistance.

Remote access to Bruker data and Topspin software

Using a VNC program, log in to "spin" and choose "other" as login. Enter your login name and password. Topspin will open automatically.