

New User Training at the Analytical NMR Facility under Phase II Research (updated August 25, 2020)

Effective August 27, 2020, New User Training is resumed in the Analytical NMR Facility. This training will be conducted in accordance all campus, departmental, and Analytical NMR Facility Protocols for COVID-19 Safety Assuredness.

Training and approval to be an independent user consists of four parts:

(1) General Training. This includes safety training and fundamentals of NMR operation. General Training will take place entirely by virtual meeting, and must be scheduled with Dr. Fu Chen. The general training document can be viewed <http://www2.chem.umd.edu/nmr/nmrsafety-new.htm>.

(2) Virtual Instrument-Specific NMR Training. Once General Training is completed, New Users can arrange for training on the instrument that best meets their research needs. Instrument-specific training includes both a virtual meeting with the Facility Manager and hands-on demonstrations with the NMR Instrument. During the virtual meeting, the protocols and procedures to run NMR experiments will be discussed and demonstrated. Users will learn how to prepare samples, load samples and tune probes and how the NMR software operates. The New Users first will learn NMR400 or AM400, and the protocols can be viewed online http://www2.chem.umd.edu/nmr/instrument_advanced.htm

(3) Hands-On Instrument-Specific Training. This training generally takes place immediately following the Virtual Instrument-Specific NMR Training. During this training, the New User observes the computer log in, software opening, sample loading and probe tubing. While this training will be socially distanced, the trainer and trainee will need to come closer for some aspects of training. Such close-contacts (<6 ft) will be limited to 15 minutes maximum duration. The period generally takes about less than 10 min. Then, the user will sit in front of the computer and the manager will go back to office to go through the software by TeamViewer. However, if the period of close-contact (even intermittent close contact) reaches 15 minutes, the user and trainee must both leave the laboratory for a period of at least 15 minutes, before training can be resumed. No more than two 15-minute close-contact periods is permitted per day.

(iii) Trainee operation of NMR instruments. Once the New User has completed Hands-On Instrument Specific Training, they may make arrangements to utilize the instrument under virtual observation by the facility manager through TeamViewer.

(iv) Passing an exam. The New Users will be required to pass an examination to use the NMR instruments independently.

Prospective New Users should contact Dr. Fu Chen directly to make arrangements for Training.