

Welcome to CSULA NMR Facility.
NMR Policy

The CSULA NMR facility is available 24 hours 7 days a week to all the individuals who have received the adequate NMR training. NMR training is available for all the users in chemistry and biochemistry department only upon electronic request (ajabala@calstatela.edu).

Warning

Because of high magnet field, absolutely NO ADMISION to the NMR rooms for people with a Pacemaker or metallic implant .

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- 1- The door to the NMR (300 MHZ) room (721) always should stay OPEN while there are people in that room.
 - 2- Do not bring any magnetic materials tools or equipment in the proximity (orange line) of the NMR magnet. The NMR magnetic fields may permanently damage watches, calculators and certain types of credit cards. The attractive forces could also move the object uncontrollably toward the magnet and might damage the magnets/probes or might even cause the magnet to quench. Magnet quench is the event that quickly vaporizes the liquid Helium, emptying the magnet in a matter of few minutes. Be aware that there could be a risk of asphyxiation in a confined space when a magnet quenches.
 - 3- Always assume that there is a sample inside the magnet. Therefore, first lift the air and then increase the airflow to the max to ensure that there is no sample inside the magnet. You should be able to hear and feel the air from the top of the magnet. Remember to give it enough time for the sample to be ejected. In case you still don't see any sample coming up, for final assurance, you should perform a gentle cavity search from top of the magnet using your finger.
 - 4- Once done with your experiments place the reference sample inside the magnet and lock on the deuterium signal (Acetone-D6). This will help to maintain the field adjustment with respect to the lock signal thus making it easier for the next person to locate the lock signal.

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Rules for Sign-up on the 300 MHz NMR

1. To reserve NMR time for the 300 MHz NMR go to <http://faces.crc.uga.edu/> using the group name CSULA. Username and password can be obtained from the NMR Facility Manager (ajabala@calstatela.edu) after completing the training sessions. You must have a valid email address in order to have access to the NMR schedule system.
2. The basic unit of time is 15 min. You should sign for every 15 min. block if you are intending to use more than one block.
3. During prime time (8:00 AM - 8:00 PM), any user may reserve the time up to 48 hours in advance for a maximum of 45 min (3 blocks of 15 min.) per day. However, if an individual research group or any teaching laboratories require more NMR time, this can be accommodated. If you require more than the 45 minutes, submit a completed **NMR Time Request Form** to Mr. Ali Jabalameli (PS652) not less than 3 business days in advance. Ali will post the request on FACES.
4. During non-prime time (8:00 PM - 8:00 AM), you may reserve as many time blocks as available up to 48 hours in advance.
5. If you do not cancel your reservation and do not use it, your PI's account will be billed at the normal rate. Cancel your reservation through the on-line FACES system.
6. Reserved time is forfeited if the user does not show up within the first five minutes of the reserved time block.
7. Every NMR user must document their instrument usage in the NMR logbook. This must be done regardless of the nature of work, time of day and length of time. Please provide all the information requested in the logbook. Undocumented use of the spectrometers will result in suspension of user privileges.
8. At the end of each week, Ali will place a printed copy of the final FACES schedule and a summary that reflects the actual usage time in a notebook for records in the Department Office. Also, the Department's Academic Support Coordinator (ASC) will give a copy of the actual usage time to Bill Wimberley for invoicing purposes.

Rules for Sign-up on the 400 MHz NMR

The estimated time for changing a probe and setting up the instrument can be from 20 minutes to 2 hours.

1. The 400 MHz NMR is available to all the qualified (after completing the training sessions) NMR users only with prior appointments. These appointments are made in advance, as explained below.
2. For making an appointment, NMR users are required to:
 - a. Starting every Wednesday at noon, and until Friday at 9 AM, users will be allowed to sign-up by PS652 on the posted Phase 1 sign-up schedule. This sign-up will be for NMR time starting the following Monday at 8 AM for the following week (ending 7 days later at Monday, 8 AM). The order of sign-up will be first come, first served. In the event of a tie, a coin flip or a roll of the dice will decide the order. During this time period (Wed-Fri), a maximum reservation of 24 hours (that may be spread out over one or more days) per research lab will be in place, with the exception for Dr. Ba's group, in which a 48-hour maximum is in place.
 - b. A completed **NMR Time Request Form** reflecting the request made above (2.a.) must also be submitted to Ali Jabalameli's in box (PS652) at that time.
 - c. Ali will examine the Phase I schedule on Friday, and he will rearrange the times to minimize hardware changes, to maximize efficiency, and to include any additional time needed for those changes as maintenance time. Ali will create and post by PS652 a new schedule as Phase II next to Phase I by 12 noon on Friday.
 - d. After Friday at noon, the rest of the free time blocks of the following week are available for the users to sign-up for any length of time. These sign-up requests must be made to Ali by email (to verify the order of first come, first served). The NMR Time Request Form is sent as an attachment to this email. Also, put hard copies of the form and email in the Phase II request box. This will be confirmed by a follow-up phone call to Ali. Ali will post these additional requested times on paper. The latest schedule will be the updated paper Phase II schedule.
 - e. At the end of each week, the NMR Time Request Forms, unrestricted time email requests, Phase I and Phase II schedules as well as the final schedule that reflects all of the changes (cancellations, additional times, etc.) that occurred to the Phase II schedule will be placed in a notebook for records in the Department Office by Ali. Also, the Department's Academic Support Coordinator (ASC) will give a copy of the final schedule to Bill Wimberley for invoicing purposes.
3. The NMR scheduling board shows two weeks (current week and following week). Each day is divided to 24 blocks (each block of time is 1 hour). Prime time is from 8:00 AM-8:00 PM, Monday thru Friday.
4. In the case of any time cancellation, the user must complete and distribute by email the **NMR Time Cancellation Form** to Ali and the NMR user group. The email sending time is the official cancellation time. If you cancel your reservation more than 48 hours before the start of your time slot, your user account will be charged a minimum of one hour of usage. If you cancel it less than 48 hours before your time slot, you will be billed for any unused time plus one hour.
5. If there is a special NMR time request that cannot be fulfilled under the current NMR scheduling guidelines, it should be indicated in the **NMR Time Request Form**. For a special experiment that requires more than 24 hours, but less than one week, the entire list of NMR users will be informed at least two weeks in advance. For a special experiment that requires more than one week, the entire list of NMR users will be informed at least one month in advance. The list of faculty NMR users will be consulted in order to reasonably accommodate the request.
6. Every NMR user must document their instrument usage in the NMR logbook. This must be done regardless of the nature of work, time of day and length of time. Please provide all the information requested in the logbook. Undocumented use of the spectrometers will result in suspension of user privileges.

Rules for Sign-up on the 600 MHz NMR

The estimated time for changing a probe and setting up the instrument can be 20 minutes to 3 hours

1. The 600 MHz NMR is available to all the qualified (after completing the training sessions) NMR users only with prior appointments. These appointments are made in advance, as explained below.
2. For making an appointment, NMR users are required to:
 - a. Starting every Wednesday at noon, and until Friday at 9 AM, users will be allowed to sign-up by PS652 on the posted Phase I sign-up schedule. This sign-up will be for NMR time starting the following Monday at 8 AM for the following week (ending 7 days later at Monday, 8 AM). The order of sign-up will be first come, first served. In the event of a tie, a coin flip or a roll of the dice will decide the order. During this time period (Wed-Fri), a maximum reservation of 24 hours (that may be spread out over one or more days) per research lab will be in place, with the exception for Dr. Ba's group, in which a 48-hour maximum is in place.
 - b. A completed **NMR Time Request Form** reflecting the request made above (2.a.) must also be submitted to Ali Jabalameli's in box (PS652) at that time.
 - c. Ali will examine the Phase I schedule on Friday, and he will rearrange the times to minimize hardware changes, to maximize efficiency, and to include any additional time needed for those changes as maintenance time. Ali will create and post by PS652 a new schedule as Phase II next to Phase I by 12 noon on Friday.
 - d. After Friday at noon, the rest of the free time blocks of the following week are available for the users to sign-up for any length of time. These sign-up requests must be made to Ali by email (to verify the order of first come, first served). The NMR Time Request Form is sent as an attachment to this email. Also, put hard copies of the form and email in the Phase II request box. This will be confirmed by a follow-up phone call to Ali. Ali will post these additional requested times on paper. The latest schedule will be the updated paper Phase II schedule.
 - e. At the end of each week, the NMR Time Request Forms, unrestricted time email requests, Phase I and Phase II schedules as well as the final schedule that reflects all of the changes (cancellations, additional times, etc.) that occurred to the Phase II schedule will be placed in a notebook for records in the Department Office by Ali. Also, the Department's Academic Support Coordinator (ASC) will give a copy of the final schedule to Bill Wimberley for invoicing purposes.
3. The NMR scheduling board shows two weeks (current week and following week). Each day is divided to 24 blocks (each block of time is 1 hour). Prime time is from 8:00 AM-8:00 PM, Monday thru Friday.
4. In the case of any time cancellation, the user must complete and distribute by email the **NMR Time Cancellation Form** to Ali and the NMR user group. The email sending time is the official cancellation time. If you cancel your reservation more than 48 hours before the start of your time slot, your user account will be charged a minimum of one hour of usage. If you cancel it less than 48 hours before your time slot, you will be billed for any unused time plus one hour.
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