NMR Safety Memo

No one is to be present in the NMR Facility unless they have read and understood this safety memo and also have an explicit approval from the NMR Facility Manager. Please thoroughly review and understand the following important statement.

Responsibilities, Risks and Liabilities:

1. The NMR labs are accessible only to authorized users. You must inform the Facility Manager if you are inviting any guest. In any event, you are liable for the safety of your guests and any potential damage when the safety policy is not followed.

2. Because of high magnet fields, there is absolutely NO ADMISSION to the NMR rooms for individuals with a heart pacemaker or metallic implant. The strong field and the radio frequencies of NMR spectrometers are known to interfere with heart pacers.

3. Do not bring magnetic materials, tools, or equipment in the proximity (red line) of the NMR magnet. The NMR magnetic fields may permanently damage watches, calculators and certain types of credit cards. The attractive forces can move the object uncontrollably towards the magnet and may damage the magnets and probes or cause the magnet to quench. Magnet quench is the event that induces a structural collapse of the magnet field and quickly vaporizes the liquid helium, emptying the magnet in a matter of minutes. Be aware that there can be a risk of asphyxiation in a confined space when a magnet quenches.

4. Use precaution when you step down from the platform next to the 600 MHz NMR magnet.