

## NMR Facility User Safety Policies

All users must read these policies and sign their consent before they can work in the facility. Compliance with these rules is required in the NMR Facility! Access to the NMR facility is a privilege, not a right. Individuals that ignore these policies and other posted rules will be barred from the facility.

The NMR Facility as a laboratory. All safety protocols you use in your laboratory should be followed in the Facility. Non-approved individuals must be accompanied by a staff member. No Food or Beverages are allowed in the Facility. If injury occurs, move to safety and call 911.

### Safety Equipment Locations (See posted floor plan):

- Emergency procedures are posted by the doors exiting the main lab (108D) and both exits to the hallway.
- Facility Staff and emergency contact information is posted in the same location.
- Fire extinguishers are mounted near most of the entry ways.
- First aid kit, portable eye wash, spill cleanup materials, glass waste and solid hazardous waste containers are stationed on the shelves in the 108-suite hallway (outside 108C).
- AED is in main hallway across from elevators.

### Magnet Safety

All users must be aware of safety issues that NMR Magnets possess. The Facility's magnets have significant fringing fields that extend meters from their surfaces. The 5 Gauss fields of each magnet is marked by both tape on the floors and plastic stanchions and chains. Magnet cryostats hold cryogenic liquids (He and N<sub>2</sub>) that if suddenly released can cause burns if it contacts skin or asphyxiation by displacing oxygen from the room.

The magnets **cannot be powered off** without significant preparation time, effort and cost.

- People with implanted medical devices are not allowed to approach the magnet.
- Do not bring any ferro-magnetic metal objects near the magnets.
- Do not bring backpacks, phones, watches, wallets or credit cards near the magnets.
- Do not bump or lean against the magnets or sample changes.
- A quench is a sudden and violent venting of cryogens from the magnet. **Leave the lab immediately** and contact NMR Facility personnel.

### NMR Sample Safety

- Gloves are not allowed in the NMR Facility. The outside of your sample tubes should be cleaned of any hazardous material before you leave your research lab.
- Sample tubes and other chemicals should be transported in an appropriate secondary container.
- **No sample preparation** is to be performed in the instrument rooms.
- Minor sample preparation can be done with prior staff approval in the wet lab (108C). This room, which includes a fume hood, full eye wash, safety shower, is only available during hours the staff is present (typically weekdays 8:00 AM - 5:00 PM)
- Broken glass NMR tubes should be placed in the "Glass Waste Container" and not in the trash.
- Sample spills should be cleaned immediately with provided spill supplies. Place all bagged contaminated cleanup material in the "Hazardous Waste Container."
- Do not attempt to clean or remove glass from spinner turbines. Place the spinner in marked container near waste container.
- If sample is spilled in the depth gauge, clean it with provided isopropanol.
- If you suspect a sample was broken/spilled in the magnet; mark the system "Out of Service" and **contact the staff immediately**.



108A  
1752 SF



108B  
71 SF

108D  
1648 SF

108E  
126 SF

H106  
70 SF



108C  
230 SF



H105  
84 SF

108F  
120 SF

108G  
75 SF

108H  
149 SF



108P  
175 SF



108N  
123 SF

108M  
124 SF

108L  
89 SF

108K  
124 SF

108J  
124 SF



108I  
265 SF

H103  
952 SF

**Other NMR Facility Policies:**

- Only Facility Staff are permitted to train new users.
- Only trained users are allowed to operate the systems, handle and load samples.
- Use only approved NMR tubes that are available in the CAS Stockroom. (Wilmad WG-1228 or Norrell XR-55) Any other brands or grades must be cleared by the Facility staff before they are used. Unmarked tubes are disposable and should never be used in the facility.
- Tubes and hands must be clean prior to entering the Facility. Wipe tube and spinner with provided Chem-wipes prior to placing samples into sample changer carousel.
- All users must sign into the system's log book before they start their experiments.
- Keys are only issued to users that are approved for after-hours access. Keys should not be loaned to other users. Violation of this rule will result in losing your key and after-hours access.
- System computer passwords are given to users when they are approved for after-hours access. Users giving a password to a non-approved user will lose their key and after-hours access.

**I have received a copy of the NMR Facility Users Safety policies, read them, and will abide by them.**

**Print Name:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Advisor:** \_\_\_\_\_

**Status:** Postdoc \_\_\_\_\_ Graduate Student \_\_\_\_\_  
Undergraduate \_\_\_\_\_ Other \_\_\_\_\_