Standard Operating Procedure

LIQUID NITROGEN DEWAR

1) Requirements for use

You must be trained by John Mansfield (936-3352) or Kai Sun (936-3353) or Haiping Sun (936-3338) before dispensing liquid nitrogen.

2) Hazards/Safety precautions

You must wear safety glasses when dispensing liquid nitrogen.

Liquid nitrogen will make the hose extremely cold. Wear gloves when dispensing liquid nitrogen.

Make sure hose is attached to the LIQUID port of the dewar.

3) Standard Operating Procedure

A. Dispensing Liquid Nitrogen from Dewar.

1. Place end of hose into portable dewar.

2. Open LIQUID valve until most of the nitrogen leaving the hose is liquid rather than gas.

3. When the portable dewar is full, turn off nitrogen flow by closing the valve.

4. If nothing is coming out of the hose, check the gauge at the top of the dewar. If it reads empty, change dewars.

B. Changing Dewars

1. Make sure dewar valve is closed.

2. Loosen nut at the top of the hose, and remove the hose.

3. Attach hose to the new dewar at the LIQUID port. Do not over-tighten the nut.
4) EMERGENCY SHUTDOWN:

   Close valve to stop the flow of liquid nitrogen.