Clark Hall Materials Facility
Safety Orientation
For rooms D21, D15, D10, & D22 Clark Hall

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Acknowledging the Facility

Please remember to properly acknowledge use of the CCMR Facilities in your presentations, publications, and conference proceedings.

Researchers who make use of these facilities must acknowledge the award number

**NSF DMR-1120296**

www.ccmr.cornell.edu/about/acknowledge.html

For more information, visit:
www.ccmr.cornell.edu/facilities
Shared Facility Safety

- The Clark Hall Materials Facility is a shared facility.
- You are responsible for your own safety and the safety of those around you.
- Protect yourself: Pay attention to notices and warning signs posted in the facility. Access restrictions, hazards, warnings, and emergency contacts are posted on HASP door signs.
- Be conscientious: Don’t take a chance of putting yourself, other facility users, facility staff, or custodians at risk.
- Do not introduce new hazards or hazardous materials without approval from facility staff.
Shared Facility Safety: Sample and Waste Management

- All materials and containers must be labeled with the contents, NetID/email, and the date. CCMR provides self-adhesive labels.
- You must get facility staff approval for any activity that may generate hazardous waste.
- All samples must be removed from the facility after use/analysis. Do not leave samples in this facility.
Facility Guidelines

- Do not prop open doors.
- Do not eat or drink in the facility.
- Closed-toed shoes are required at all times.
- Long pants and sleeves are required when handling chemicals or cryogens (lab coats are available in D21H).
- Long hair must be tied back to avoid getting caught in moving parts.
- Phones, laptops, etc. must not distract from safe facility use.
- Headphones may be used provided cords are managed and you can still hear what is going on around you.
- Leave areas at least as clean as you found them.
Equipment Use

- Equipment training will be done by facility staff.
- Users are prohibited from using equipment for which they have not been trained.
- Use of equipment which has been enabled under someone else’s Coral account is strictly prohibited in all CCMR facilities.
- Each tool has Standard Operating Procedures (SOP) posted at the tool describing:
  - EH&S safety training required for use
  - Personal Protective Equipment (PPE) required
  - Equipment-specific training required before use
  - General use procedures and emergency notes
Shared Facility Hazards

All users working in the following areas must be trained and aware of hazards which could potentially impact users in the vicinity. Obey posted signage.

Chemical Area & fume hood (D21E)
- Hazard Communication (CULearn #5710-GHSUpdateHazCom) and Fire safety (CULearn #5330-FireSafety) training are required to work in this area.
- Fume hood safety training (CULearn #3355-FumeHood) is required to work with the fume hood.
- Be aware of hazards and warnings posted on the HASP door signs.
- Safety glasses with side shields are required at all times.
- All containers must be labeled with the contents, NetID/email, and date.
- Safety Data Sheets are required to handle hazardous materials.
- Any activity that may generate hazardous waste requires approval from facility staff. All hazardous waste must be documented on the log sheet for the hazardous waste container.
- Do not leave samples in this facility. Take your samples with you when you leave.
Shared Facility Hazards

All users working in the following areas must be trained and aware of hazards which could potentially impact users in the vicinity. Obey posted signage.

High Magnetic Fields (D10, D22):
- Magnetic Field Safety (#5035-magnetic) training is require to work with equipment in these areas.
- The PPMS systems in D22, and Lakeshore and GMW Probe Stations in D10, each contain powerful electromagnets.
- Areas are marked with tape indicating the threshold of a 5 Gauss (5 Oersted) field when the magnet is being operated at full power. Users with pacemakers or magnetic surgical implants must stay outside of this area.
Shared Facility Hazards

All users working in the following areas must be trained and aware of hazards which could potentially impact users in the vicinity. Obey posted signage.

Cryogenic Hazards (D10, D22):
- Training in Handling Cryogens (#3055-cryogensfty) required to work with equipment in these areas.
- Wear safety glasses whenever open cryogens are in use in the room
- Do not touch any surface of a dewar, transfer line, or probe under cooling without cryogen gloves.
- If you notice a liquid or gas leak (or anything else unusual), notify the cryogen user and/or facility staff immediately.
Waste Disposal

All waste generated in the facility must be disposed of according to EH&S regulations as outlined in EH&S Chemical Waste Disposal training. If you are unsure how to safely dispose of something, please ask facility staff. Don’t take a chance of putting yourself, facility users, facility staff, or custodians at risk.

• **Hazardous Waste**
  • Any activity that may generate hazardous waste must be planned and approved in advance by facility staff.
  • Hazardous waste must be collected in the room where it is generated.
  • CCMR provides hazardous waste containers bearing an EH&S hazardous waste label.
  • Hazardous waste containers must be stored in secondary containment.
  • Each hazardous waste container has a log sheet. Chemicals and quantities must be added to the log sheet for the container.
  • If you need to dispose of a chemical that does not already appear on the container’s hazardous waste label, you must consult with facility staff to determine how your waste should be segregated.
Waste Disposal

All waste generated in the facility should be disposed of according to EH&S regulations as outlined in EH&S Chemical Waste Disposal training. If you are unsure of how to safely dispose of something, please ask facility staff. Don’t take a chance of putting yourself, facility users, facility staff, or custodians at risk.

- **Lab Glass** – Microscope slides, old or broken glassware, silicon wafers, etc., which are not contaminated with hazardous materials should be disposed of in the glass disposal containers in D21 (outside the office) and D21E.
- **Sharps** – Used blades and other sharp objects go in the yellow sharps containers located around the lab.
- **Pipette tips** – Ensure pipette tips are empty, then dispose of them in a yellow sharps container.
- **Syringes/needles** – Consult with facility staff if you plan to use these, they have special storage/disposal guidelines.
- **Recyclables** – Paper, cardboard, clean and empty drink containers, etc., should be left in the small blue recycling bins or the large blue box in D21.
- **Trash** – Anything not fitting the above categories should go in the small trash bins or the large trash can in D21.
Materials Facility Emergency Contact Info

In case of emergency, dial 911 from a campus phone, or 255-1111 from your mobile phone, to reach Cornell Dispatch.

For urgent but non-emergency equipment issues, call the appropriate staff member using the number posted on the HASP signs on the doors. If you have questions regarding proper procedures, safety regulations, or other concerns, please contact one of the Facility Staff:

- Darren Dale, Facility Manager: darren.dale@cornell.edu, 621 Clark Hall
- Steve Kriske, Facility Technician: kriske@cornell.edu, D21 Clark Hall

The following contacts may also be of assistance:

- Jon Shu, CCMR Associate Director: jbs24@cornell.edu, 633 Clark Hall
- John Sinnott, CCMR Safety Representative: jps39@cornell.edu, 624 Clark Hall
- Keane Leitch, PSC Safety Manager: kjl44@cornell.edu, 121 Baker Lab
- Todd Pfeiffer, PSC Facilities Director: tap66@cornell.edu, 105 Weill Hall
Emergency Exits

In case of an emergency, follow the exit signs to the loading dock (primary exit), or into Baker to the exit at the end of the hallway (secondary exit).
Emergency Facilities

Protect yourself: know where emergency facilities are located before you need them:

- Fire Extinguisher
- Safety Shower
- Eyewash
- Phone
Shared Facility Access

All users must understand the information presented in this facility orientation and show proof of the following safety trainings, available through CULearn, in order to gain access to the facility:

- EH&S Laboratory Safety (#2555-laboratory)
- EH&S Chemical Waste Disposal (#2716-chemwaste)
- EH&S Fire Safety (#5330-firesafety)

See [https://www.hr.cornell.edu/life/career/culearn_access.html](https://www.hr.cornell.edu/life/career/culearn_access.html) for information on how to obtain training or verify your CULearn records.
CCMR Shared Facility Access Form (more information at http://www.ccmr.cornell.edu/facilities/becoming-a-ccmr-facility-user/)
Submit one form to each facility that you are requesting access to.
1) Print out this page. Illegible or incomplete forms may not be accepted.
2) Read the facility orientation completely and sign below.

**Trainings A,F, and W required for access to all facilities**

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*Required for specific activities, see facility orientation

4) Verify in CULearn (URL above) that all the required trainings show as completed on or after April 1, 2009.
5) Print a copy of your CU Learn All Learning and attach to this form.
6) Fill in user information, sign and bring completed forms to the appropriate facility manager.

User Name______________________________________________________________      Cornell University ID card # ___________________

NetID/E-mail___________________________   Status___________________        Department_______________       Advisor___________________

By signing below, I am attesting that I have read the facility orientation form and completed the necessary EH&S safety trainings.

User Signature__________________________________Date_____/_____/_____

Office use:
Door________     e-mail list________     entered by________