

Stanley Hall Safety Committee Agenda

11:00 am -12:00 noon, Wednesday, September 12, 2007

Room 177 Stanley Hall

All safety representatives, or designated proxies, were in attendance except Jacob Pollack (Healy Lab) and David Kim (Mofrad Lab)

1. Welcome to the Stanley Safety Committee: functions, format, & expectations (Thom Opal; 5 min.)

Facilitation

- Recognize group needs, temper time use accordingly
- No sidebars! Too many people
- Keep focus on Safety
- You'll be involved more, as time goes on

Me:

- Transparent – minimize impact on your time
- Reliable, responsive, available
- Informed/Prepared – research issues before bringing them to u

You - How many:

- Labs with hazardous chemicals (besides coffee)? **Almost all**
- Computational bio labs, without chemicals? **Three**
- Core facilities? **A few**
- Lasers? **Several**
- Radioactive Materials? **Several**
- Toxic Gas? **Two**
- NMR Magnets? **Two**
- Computer Workstations? **Everyone**
- Biohazardous Materials? **Several**
- Engineered Nanomaterials: See new Fact Sheet? **Several**
- Robots? **One**
- Flammable Liquids? **Almost all**
- Potential Earthquake Impact? **Everyone**

Safety Officer Duties

Participate, Take notes, Share information with workgroup, Poll workgroup for issues, Follow up on tasks, Assign appointee if not able to attend, Attend presentations

2. Safety Coordinator Announcements (Thom Opal; 30 min.)

- Training Requirements: BEP, IIPP, New Lab Employee 9:00-11:00 9/26, 10/18, 11/15: enroll through Interactive Course Enrollment (ICE). Will be posted on QB3-UCB Web site (intra)
- Inspections: Workspace Self-Inspections, and Lab Safety Inspections Mid-October. Handouts: inspection checklist, and guidance. Lab and Office Self-inspections: I prefer to accompany Safety Officers on self-inspection, so I can answer questions. Fire and Life Safety Inspections (Campus Fire Marshal)
- Other
 - a. Monthly eyewash testing and documentation tags available
 - b. BEP: volunteer floor monitors and roll takers needed LSO is Roll Taker. Volunteer or I'll message one out of groups
 - c. Computer Ergonomics: volunteer evaluators needed ICE 9/26 8:00-12:00; download free Stretch-Break software <http://www.uhs.berkeley.edu/facstaff/ergonomics/stretch.shtml> enter your CalNet ID, click on the People tab, and look for Stretch Break under Job Tools
 - d. Hallway clutter Lab clutter Fact Sheet handout; stockroom startup. We'll remind you, if necessary. Fact Sheets and SOPs in CHP
Question raised about paper recycling bins: available upon request, for lab or common areas, from Building Manager Patrick Inacio
 - e. Liquid nitrogen filling and elevator transport Questions? Comments? Automatic fill station for large dewars; use hand-fill station for small dewars

Ear muffs requested for hearing protection. T. Opal will follow up

- f. Chemical spill cart procedures Contact me ASAP during incident. Common room key opens door. Read MSDS for hazards and cleanup procedure. Do not use if respiratory protection is required PPE – call EH&S. Replenish.
- g. First aid kits: UHS approval prior to ordering See me for form

Forms requested from Nogales and Sjolander Labs

- h. Fire extinguishers I'll visit labs to assign mounting location; Training on use will be scheduled in future
- i. Seismic bracing for benchtop equipment, etc. and Q-Brace Matching funds for identified needs, via EH&S Q-Brace program. I will survey needs when accompanying on self-inspections. I will announce detail later.
- j. Fume hood and biosafety cabinet alarms Contact me if re-occurring; may indicate air-balance issue; low-flow. Shut containers and sash
- k. Kitchenette safety review back of agenda: fire safety involving electrical overload, and toaster oven “stay on” (which has lead to three building evacuations)

3. Incidents, Concerns, and Corrective Measures (All Attendees; 15 min.)

Cell phone repeaters, for increased network availability, requested as a safety item: need to call for help on injury or chemical incident, for example.

4. Agenda Items for Next Meeting, 11-12 Wednesday, 12/12/07, room 177 (All Attendees; 10 min.)

Chemical storage: secondary containment of liquids – need for more training (T Opal to delve into deeper detail as future topic). Comment that College of Chemistry provides these gratis; would we?

Handouts:

- IIPP & BEP training documentation, and workgroup roster (one per workgroup)
- IIPP & BEP documents (only a few available today, for those who need extra)
- EH&S Laboratory and Shop Inspection Program Checklist for 2007-2008
- Monthly Eyewash Inspection tag
- How to Dispose of Unwanted Material at UC Berkeley EH&S poster
- Compressed Gas Cylinders: Proper Management & Use new EH&S brochure
- Compressed gas cylinder status tags
- Be Smart About Lab Safety series of EH&S posters
- Liquid Nitrogen elevator transport laminated placard
- Nanotechnology Guidelines for Safe Research Practices new EH&S Fact Sheet
- Clutter as a Laboratory Safety Concern new EH&S Fact Sheet
- Office of Environment, Health & Safety general information brochure

Note: the following *Examples of Safety Issues that Apply to All of Us* was on the back side of the agenda. This is an example of real-life safety issues that can happen in the building; how to go about identifying the problem, and arrive at solutions.

Calculations and Background for *Too Much Coffee!!!?*:

Master Model MH-320 Electric Air Pot (not UL-listed) 800 watts

Coffee grinder 90 watts

Three coffee makers (900 watts each = 2700 watts total)

Total potential power draw = 3590 watts

Curtis model SP700 surge protector/power strip rating is 15 amps of current, maximum. Power strip also clearly states that it should be “used only with UL-listed appliances.”

Calculation:

$$\begin{aligned}\text{Current (amps)} &= \text{watts/volts} \\ 3590 \text{ watts}/120 \text{ volts} &= 29.9 \text{ amps}\end{aligned}$$



1) Too Much Coffee!!!? Three coffee makers, one coffee heater, and one coffee grinder, all plugged into *one* outlet, via a multi-outlet surge protector.

- **Issue:** total current of all five appliances, about 30 amps, exceeds maximum strip rating of 15 amps. When surge protector's current rating is exceeded, the metal oxide varistor (MOV) will be destroyed or degraded, thus disabling the protection of the device. This may lead to a fire, as the power cord overheats over time.
- **Solution:** Two 7.5 amp coffee makers plugged into one receptacle (one per outlet) at maximum. This renders the multi-outlet strip unnecessary, while staying below the current rating (20 amp) of the circuit. Three other appliances, if necessary, must be re-located to additional circuit/receptacle.



2) We're Toast! Toaster oven with "stay on" position

- **Issue:** This toaster oven has already been connected with **three fire alarms**, due to smoke. Over 600 people lose at least one hour each, per event = \$\$,\$\$\$\$. Unattended food cooking in "stay on" position could ignite.
- **Solution:** Do not use "stay on" position on *any* toaster oven. Always attend your cooking food.

