As a Lab Safety Officer (LSO) you are a part of your lab's quality team. Your role is to improve the lab's safety culture using education, training and coaching to prevent incidents and injuries in the lab. Additionally, you will attend lab safety committee meetings, or send a representative if you are unavailable, to serve as a liaison between the safety committee and your lab.

CONTENTS
- EH&S Team
- Laboratory Safety Orientation Checklist
- Online Lab Safety Tools & Online Safety Training
- Harvard Training Portal User Reference
- Assessment & Inspection Management System (AIMS) User Reference
  - Certify Open Corrective Actions
  - Complete PPE Assessments
- LabPoint Door Placard Sample
- Hazard Communication Container Labeling Guide
- Injury/Illness Accident Reporting Fact Sheet
- Chemical Waste SAA Inspection
- Lab Ergonomics Tri-Fold

WASTE GUIDANCE
- Biological Sharps Disposal Guide
- Non-Biological Sharps Disposal Guide
- Chemical Waste SAA Posting
- DRW – Disposal Restricted Waste
- Lab Chemical Storage Guide
- Lab Common Items Disposal Guide

ADDITIONAL RESOURCES:
- Laboratory Emergency Response Guide
- Longwood Annual CHP & ECP Review Log
- Harvard Chemical Hygiene Plan
- Harvard Exposure Control Plan
- Hepatitis B Vaccination Offer
- Evacuation Trifold (print specific lab building)
- Harvard EH&S Website
# EH&S Team

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<tr>
<th>Lab Safety Advisor</th>
<th>School/Department</th>
<th>Email</th>
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<tr>
<td><strong>CAMBRIDGE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chris Caldwell</td>
<td>FAS—Biolabs, Rowland, Harvard Forest</td>
<td><a href="mailto:chris_caldwell@harvard.edu">chris_caldwell@harvard.edu</a></td>
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</tr>
<tr>
<td></td>
<td>Wyss—Cambridge</td>
<td></td>
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<tr>
<td><strong>LONGWOOD</strong></td>
<td></td>
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</tr>
<tr>
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<tr>
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<tr>
<td></td>
<td>HSDM</td>
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<td><strong>BIOSAFETY</strong></td>
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<tr>
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</tr>
<tr>
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<td>SEAS</td>
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</tr>
<tr>
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</tr>
<tr>
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<td>HMS</td>
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</tr>
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</tr>
<tr>
<td></td>
<td>HSDM—Systems Bio, HCCM, LSP</td>
<td></td>
</tr>
<tr>
<td><strong>PROGRAMS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mary Corrigan</td>
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<tr>
<td>Xiaowei Yan</td>
<td>Laser Safety</td>
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<tr>
<td>Lance Schumacher</td>
<td>Hazardous Waste</td>
<td><a href="mailto:lance_schumach@harvard.edu">lance_schumach@harvard.edu</a></td>
</tr>
</tbody>
</table>
Laboratory Safety Orientation Checklist

Laboratory Safety Training Review by Lab Training Manager (PI or Designee)

NOTE: The PI may authorize another person to operationally fulfill the role, but it remains the Principal Investigator’s responsibility to ensure that all personnel in the lab have the necessary skills (through training and experience), maturity and supervision to work safely in a lab with hazardous processes or substances. Consider the varying maturity and experience levels when orientating a person to the lab and when determining the appropriate assignments and supervision and training required. When considering personnel under the age of 18, see the University’s Minors on Campus Policy http://youthprotection.harvard.edu/minors-labs-policy.

☐ Add researcher to lab roster in PeopleSoft https://hrapps.cadm.harvard.edu/psftprd/signon.html
   Review the individual’s research program, identify core and specialized training requirements. Show researcher how to access training in the Harvard Training Portal: https://trainingportal.harvard.edu
   Exception: those who will work in a lab for less than a week under direct supervision or others who will not be working with or adjacent to hazardous materials, processes or equipment.

☐ Review laboratory-specific safety training/SOPs
   For highly hazardous materials, equipment, or processes that pertain to the individual's research program (may include COMS protocols, radiation registration, etc. in addition to internal lab documents on carcinogens, etc.)

Laboratory Orientation

Review the following safety features:

☐ Lab Emergency Response Guide and location of Emergency Numbers
☐ Emergency evacuation route and meeting area
☐ Location of fire extinguishers and closest fire alarm pull station
☐ Location and proper use of safety showers and eyewash stations
☐ Location of Safety Data Sheets in lab or online (ehs.harvard.edu/safety-data-sheets-sds)
☐ Location of Chemical Hygiene Plan in lab or online (EH&S Safe Chemical Work Practices web page)
☐ Location of accident report filing process (ehs.harvard.edu/programs/accident-reporting-investigation)
☐ PPE policy, lab’s PPE assessment report and location of required PPE (gloves, safety glasses, lab coats, etc.)

Yes N/A

☐ Location and review of Exposure Control Plan (EH&S Bloodborne Pathogens web page)
   If yes, complete Hepatitis B Vaccination Offer form
   ☐ Waste management (see ehs.harvard.edu/programs/lab-waste-management) (check all that apply):

☐ Location and proper use of highly hazardous materials, equipment, or processes
☐ Location and proper use of chemical fume hoods or biosafety cabinets or both
☐ Location and use of building spill cabinets or lab spill kits or both

Trainee Information & Signatures

☐ Undergraduate ☐ Post Doctoral Fellow ☐ Intern ☐ Visitor
☐ Graduate Student ☐ Staff ☐ Core Customer ☐ Vendor

Trainee Name: ___________________________________________ Signature: ___________________________________________

Orientation given by (PI/designee): ___________________________ Signature: ___________________________

Laboratory/Core Name: ___________________________________ Date: ___________________________

cc: Principal Investigator: A copy of this form must be kept on file by the laboratory.
cc: Laboratory Director/Executive Director/Research Operations Manager: A copy of this form must be kept on file by the Department.
## Online Lab Safety Tools

http://ehs.harvard.edu/tools

<table>
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<th>ONLINE TOOLS -</th>
<th>WHEN TO UPDATE</th>
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| **Harvard Training Portal** | **Requirements**:
Changes Lab Roster: New researcher arrival or departure |
| **Assessment & Inspection Management System (AIMS)** | PPE Assessment: Annual or when work performed in lab changes |
| **LabPoint Door Placards & Inventory** | Annual or when contacts or work performed in lab changes |

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<th>MORE TOOLS -</th>
<th>LOCATION</th>
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<tr>
<td><strong>Laboratory Labels &amp; Stickers Library</strong></td>
<td><a href="http://ehs.harvard.edu/laboratory-labels-stickers">ehs.harvard.edu/laboratory-labels-stickers</a></td>
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<tr>
<td><strong>Chemical Waste Pickup &amp; Supplies Request</strong></td>
<td><a href="http://ehs.harvard.edu/Chemical-Waste-Pickup-Form">ehs.harvard.edu/Chemical-Waste-Pickup-Form</a></td>
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<tr>
<td><strong>Safety Data Sheets</strong></td>
<td><a href="http://ehs.harvard.edu/safety-data-sheets-sds">ehs.harvard.edu/safety-data-sheets-sds</a></td>
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<td><strong>Chemical Waste Labeling Tool</strong></td>
<td><a href="http://ehs.harvard.edu/chemical-waste-labeling-tool">ehs.harvard.edu/chemical-waste-labeling-tool</a></td>
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### INSPECTIONS

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<td><strong>Laser Equipment Certification</strong></td>
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<td><strong>Fume Hood/Biosafety Cabinet Certification</strong></td>
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<td><strong>Eye Wash Stations</strong></td>
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### HAZARDOUS WASTE

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<td><strong>Safety Officer SAA Inspection</strong></td>
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<tr>
<td><strong>EH&amp;S 98% SAA Inspection</strong></td>
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### EHS RESOURCES

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<tr>
<td><strong>Standard Operating Procedures (Templates)</strong></td>
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<tr>
<td><strong>Laboratory Chemical Safety Guidelines</strong></td>
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<tr>
<td>Training Requirement</td>
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<td>----------------------------</td>
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<tr>
<td>Chemicals</td>
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<tr>
<td>Biological materials</td>
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<tr>
<td>Radioactive materials</td>
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<tr>
<td>Lasers</td>
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Managing Lab Rosters in PeopleSoft

This will help Principal Investigators (PIs) and Lab Roster Managers perform the following tasks:

- Access PeopleSoft Lab Roster Management
- Manage Lab Rosters
- Manage Lab Training Requirements
- View and Maintain the list of Roster Managers and Personnel Associated with a Lab

Accessing PeopleSoft Lab Roster Management

1. Before accessing PeopleSoft Lab Roster Management, you must know your Harvard University ID number and have an active HarvardKey. For information on claiming your Harvard Key, visit http://reference.iam.harvard.edu/.
2. Only Principal Investigators and their Roster Managers can log into this portion of PeopleSoft. To log into the Lab Roster Application, visit https://hrapps.cadm.harvard.edu/psftprd/signon.html and log in.
3. From the Main Menu:
   - Select Self Service under the left navigation menu.
   - Locate the Labs Roster folder and select the Manage Roster link.
4. The labs are listed by PI and Department. Click on the link for the lab roster you want to manage. If you manage training for a lab and do not see the Labs Roster folder or the lab listed, please work with your PI to gain access to the system as a Roster Manager.

*Note: The PI for the lab is listed at the top of the Lab Roster screen. (In the Harvard Training Portal, the PI will be listed as “Alternate Manager”.)
Adding Trainees to a Lab Roster

1. Select the **Lab Roster** tab

   - Click on any plus sign “+” in the left column of the lab **Roster** to add a new row to the roster. Click on the search icon. A pop-up window will open allowing you to search by HUID, first name, last name, or other data. Fill out one or more of the search fields and click on the **Look Up** button. Select the trainee from the search list, and they will be added to the new row in the roster. After you have added all new roster members, click on the **Save** button.

Deleting Trainees from a Lab Roster

1. Select the **Lab Roster** tab

   - Click on the minus sign “-” at the end of the row listing the person you want to remove from the lab roster. The entire row with the person information should no longer appear on the lab roster.

   - Click on the **Save** button.

*To download your roster, click on the spreadsheet icon in the upper right corner of the Lab Roster screen. You will be given the option to save or open your roster as an Excel worksheet.

Managing Training Requirements

1. Click on the **Training Areas** tab for the selected lab roster.

   - The training area lists four core trainings mandatory for many staff members in Harvard labs.

2. Select a course from the drop down under **Training Area**.

   - To add or remove training for the **entire roster**, and click on the plus “+” or minus “-” at the end of the row. Every person listed on the **Lab Roster** (first tab) will be assigned the courses you add to the Training Area. Trainees will be able to view and manage training in the Harvard Training Portal including: launching web-based training modules, registering for instructor-led training classes, accessing training history, and printing certificates for completed trainings. Managers can assign additional trainings to roster members in the Harvard Training Portal.
Managing Lab Rosters in PeopleSoft

Adding Associated People

There are 4 “Types” of Associated People: **Lab Director**, **Lab Safety Officer**, **Non-Laboratory Staff** and **Proxy**.

1. **Associated People** are connected to the lab, but will not fall under its training requirements. Associated People data will stay in PeopleSoft and will not move over to the Harvard Training Portal. To add an associated person to the Roster Manager list, click on the “+” sign, select the appropriate **Type** from the drop down list, click on the search icon to open the pop-up window. Enter the search information, click on the **Look Up** button, and select the person you want to add to the list.

2. If you add a person as a **Lab Director**, **Lab Safety Officer** or **Proxy**, they will be granted Lab Roster access. This is not immediate, but the names you enter under Associated People with these roles will show on the Roster Manager list within 24 hours.

3. **Non-Laboratory Staff** can be used for people who are associated with the lab but do not require safety training. They will not be added as Roster Managers, will not appear in the Harvard Training Portal, and are only tracked in PeopleSoft.

4. When you are done adding Associated People, click on the **Save** button.

Removing Roster Managers

1. Click on the **Associated People** tab.
   - Click on the minus sign “-” at the end of the row listing the Associated Person to be removed.
   - When you are done, click on the **Save** button.

Viewing Roster Managers

1. Click on the **Roster Manager** tab for the selected lab roster. Anyone who can manage the roster in addition to the PI will be listed here. To add other Roster Managers, follow the instructions for “Adding Associated People”.
   - The PeopleSoft security data is updated daily. Please allow 24 hours for Associated People to be added or removed from the Roster Manager tab.
   - In the Harvard Training Portal, Roster Managers will have the designation “Authorized User.”
   - If you cannot remove a Roster Manager, please email **TrainingPortalHelp@harvard.edu**

Harvard Training Portal

**Last Updated:** 7/25/2016
Assessment and Inspection Management System (AIMS)  
Online Safety Tool

Managing Corrective Actions: A *User’s Guide*
This guide describes how to manage and respond to corrective actions in the Assessment & Inspection Management System (AIMS). Other topics described include user designations, email notifications and viewing Inspection reports.

User Designations

Inspection reports and corrective actions can be accessed and managed at any time by registered users by clicking **Corrective Actions** under the **Findings & Reports** section of left side menu.

Your **User Designation** can be found at top, right corner of your login homepage, next to your name.

- **General User** can only access and manage those corrective actions assigned directly to them in result of an inspection.
- **Area Managers** can view and manage all corrective actions that have been assigned to anyone within their “areas” designated by their user permissions. An “area” can be designated as a group, school, department, or facility. To modify Area Manager permissions, contact lab_safety@harvard.edu.
- **Inspectors** conduct inspections and can view and manage all corrective actions as an Area Manager.
Email Notifications of Completed Inspections

Upon inspection, inspector will assign a responsible person within each required role category (EHS, Facilities, or Lab/Core).

If a corrective action results from an inspection, the responsible person for the assigned category will receive an automatic inspection notification email. This email will contain one link to Inspection Reports and another link view/respond to Corrective Actions.

Individuals who have been designated to receive automatic inspection notifications, but have not been assigned responsibility for corrective actions, will only be provided with a link to inspection reports.

Corrective Actions Homepage Overview

Corrective Actions homepage is located under the Findings & Reports section on left side menu
- Select Show: Mine to display corrective actions assigned to you
- Select Show: All to display all corrective actions in area (option not available to general users)
- To generate an Excel report of all correction actions, select Export Action Report button
- To generate an Excel report of all correction actions displayed on screen, select Excel button
To Respond to or Manage Corrective Actions

1. Go to Findings & Reports > Corrective Actions > Select orange “Manage” icon next to listed Corrective Action

2. At pop-up window, review details and select an action button to respond to your Corrective Action

Available are the following 5 response/action buttons

- Comment – to leave any comments
- Photo – to post any photos relevant to the corrective action
- Reassign – to reassign corrective action to another responsible party
- Extend – to request a deadline extension
- Complete – To certify/complete

AIMS Helpdesk: lab_safety@Harvard.edu

To View Short Inspection Reports

1. Go to Findings & Reports > Corrective Actions > Select “Report” icon

2. To view full report, select “View Full” action button

3. To export report into a PDF, select “Export” action button

Short Report Features:

1. Access to view previous reports
2. Toggle to view full report
3. Ability to generate report in a PDF
4. View lab roster and personnel role assignments
5. View Inspector notes
6. View corrective action assignments, notes
7. View corrective action due and completion dates
To View Full Inspection Reports

Full Report Features:
(for each finding)
1. Each finding (set of question, response and corrective actions) is separated by alternating background colors.
2. Inspector notes (if applicable).
3. Assigned role and corrective action statement (if applicable).
4. Assigned person and due date for corrective action
5. Person who completed action, completion date, and any related notes.
6. Any files uploaded by inspector (e.g. photos).
7. Additional Question Resources, if applicable.

Items Provided and general Files attached to report appear at end of Full Inspection Report.

To View Summary Reports

When all corrective actions are finalized, the inspection is closed and its report saved under the Summary Reports section.

TO ACCESS A REPORT
1. Go to Findings & Reports > Summary Reports
2. View details, select magnifying glass next to appropriate inspection date.

NOTE: Take remaining steps to filter list of reports if necessary
4. Filter reports by Template (e.g. filter by General Lab, etc.).
5. Select facility name from dropdown menu
6. Look under Actions column for number of total corrective actions.
Assessment and Inspection Management System (AIMS)

Online Safety Tool

Conducting Laboratory PPE Assessments: A User’s Guide

In accordance with Lab PPE Policy issued by University Provost and Executive Vice President, a PPE assessment is required to be conducted annually, or sooner whenever new, unique, or higher-risk activities or equipment are introduced to the laboratory.

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</tbody>
</table>
Access **AIMS**

- To log into **AIMS**, go to [https://labcliq.com/harvard.cfm](https://labcliq.com/harvard.cfm)
- Enter your **HarvardKey** credentials (username and password)

---

**ATTENTION**

- Successful login depends on **HarvardKey** (email) credentials, and therefore the AIMS user profile **must** have the user’s current **HarvardKey**.
- If you change your Harvard Key, please notify [lab_safety@harvard.edu](mailto:lab_safety@harvard.edu).
- To troubleshoot or request changes to your Harvard Key, please contact HUIT at 617-495-7777 / [ithelp@Harvard.edu](mailto:ithelp@Harvard.edu)

---

**Start/Update Assessment**

1. Select **Start/Update PPE Assessment** tab from PPE section on left-side menu.
2. By default, your research lab group will be displayed. If you work with multiple groups, select the intended group for this assessment from dropdown menu or by typing group name in search field.
3. Select **Begin Assessment**.

If need to add/delete rooms in your group, contact AIMS Helpdesk at [lab_safety@harvard.edu](mailto:lab_safety@harvard.edu)
Start/Update Assessment (continued)

4. Select **Continue** to update an open (in-progress) assessment.
5. Select **Copy** to use a previous (completed) assessment as a basis for your update (to view previous assessment, select PDF icon).
6. Select **Start New Assessment Without Copying** to start a completely new assessment from the very beginning.

---

Conduct Assessment

1. Select a **Category** to narrow down activities list.
2. Check appropriate box(es) to identify activity(ies) performed by your research group.
3. For each activity you selected:
   a) Uncheck/check **locations** (rooms) where activity occurs
   b) Add any standard PPE based on policy specific to your lab (or department or facility) from dropdown menu
   c) Use comment box to add non-standard PPE or explain any modifications to minimum university-wide PPE
4. Select **Save Category** to add or update other category activities.
5. Select **Save All Categories** to save entire assessment and proceed to upload attachments (e.g., protocols), add notes, or review assessment.
Submit Assessment for Review/Approval

1. Select **Review Assessment** tab on far right, top navigation bar
   - confirm locations, activities and PPE identified during assessment
2. Select **Submit for Review** tab to notify your PI that assessment is ready for approval
   - This action cannot be reversed once completed. Please review your assessment carefully before submitting.

The following action buttons are also available:

- **Cancel Assessment** - to delete the assessment or redundant draft
- **View/Print Draft** - to generate a PDF of assessment (e.g., to show your PI)

---

Continue Assessment

1. Select **Continue PPE Assessments** tab from left-side or top navigation bars
2. Check Status
   - **“Open”** means that an assessment already exists in a draft format
   - **“Pending Approval”** means an assessment has been conducted and submitted to PI (or designee) for approval
3. Select appropriate response action icon / button
   - For **Open** status (for draft assessments), response options are **Continue** (green arrow), **Cancel** (red X), or **Print** (PDF image)
   - For **Pending Approval** status assessments, response options are **Review** (blue clipboard) and **Print** (PDF image)

If your PI has delegated you to approve assessments online and you have captured your PI’s signature on the printed assessment copy, follow approval instructions listed on page 9.
Approve / Finalize Assessment

1. Select **Continue PPE Assessments** tab
2. Select **Review** icon/action button
3. Select **Finalize Assessment** to approve assessment

Also available are the following response action buttons:
- **Reopen Assessment** - to perform further changes to assessment, which changes the status from “Pending Approval” to “Open” (or draft)
- **Discard Assessment** - to delete assessment
- **Cancel** - to return to previous screen

Respond to Pending (due or overdue) Assessment

1. Select **Pending PPE Assessments** tabs from left menu or top navigation bars

   **Note:** Assessments will show as pending starting 30 days before annual due date

2. Select **Begin** action/icon button to pull up a list of upcoming due or overdue assessments for you to update by annual due date.
View or Print Completed Assessment Reports

1. Select View Past Assessments tabs from left-side menu or top navigation bars
   - Default view displays assessments completed within past year
2. To customize date range, type in start and end date search fields
3. To sort list, select the up/down arrows icon listed in the desired column heading
4. To view assessment, select green "View" action/icon button
5. To generate a PDF, select "Print" PDF action/icon button
6. To view more search options (e.g. assessor, department, group, PI), select yellow funnel "Filters" button
Test/Sandbox Building, Rm: 001

Emergency: Contact University Operation Center
617-495-5560

Room Contacts:

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone (Day)</th>
<th>Phone (Night)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jackie Kerr (PI)</td>
<td>(617) 432-5270</td>
<td>(617) 631-2514</td>
</tr>
<tr>
<td>Joana de Sousa (LSC)</td>
<td>(617) 432-1720</td>
<td>Call Emergency # Above</td>
</tr>
<tr>
<td>Chiu-Oan Ngooi</td>
<td>(617) 384-8264</td>
<td>Call Emergency # Above</td>
</tr>
</tbody>
</table>

Room Use: Laboratory - Research

Caution
X-Ray Equipment

Caution
Radioactive Materials

BL 3

rev date: 10/05/2018
HAZARD COMMUNICATION CONTAINER LABELING GUIDE

A label identifying the contents and providing a hazard warning will be affixed to all containers of hazardous chemicals which could pose a physical or health hazard to exposed employees in the workplace.

At a minimum, the information on a container label must include (if applicable):

- A brief description of the substance
- The main ingredients of the substance
- The kind of personal protective equipment you should wear while handling the substance
- A description of each major hazard associated with the chemical (See Below).
- Directions on how to use the substance safely
- First aid information
- The procedure for storing the substance safely
- The manufacturer’s name and address
- The procedure for disposing of the container

NFPA 704 LABEL

The National Fire Protection Association (NFPA) has developed a numerical system for the identification of fire hazards posed by various materials. These diamonds can be found on certain labels.

GHS PICTOGRAMS AND HAZARDS

Common major hazard classifications for chemicals. These are required on labels to alert users of potential exposures.

- Health Hazard
  - Carcinogens
  - Mutagenicity
  - Reproductive Toxicity
  - Respiratory Sensitizer
  - Target Organ Toxicity
  - Aspiration Toxicity
- Flame
  - Flammables
  - Pyrophorics
  - Self-Heating
  - Emits Flammable Gas
  - Self-Reactive
  - Organic Peroxides
- Exclamation Mark
  - Irritant (skin and eye)
  - Skin Sensitizer
  - Acute Toxicity (harmful)
  - Narcotic Effects
  - Respiratory Tract Irritant
  - Hazardous to Ozone Layer (Non-Mandatory)
- Gas Cylinder
  - Gases Under Pressure
  - Skin Corrosion/ Burns
  - Eye Damage
  - Corrosive to Metals
- Exploding Bomb
  - Explosives
  - Self-Reactive
  - Organic Peroxides
- Flame Over Circle
  - Oxidizers
  - Aquatic Toxicity
  - Acute Toxicity (fetal or toxic)
1. Open any Internet browser and type [www.pmacompanies.com](http://www.pmacompanies.com) on the URL address line.

2. Arrive at the PMA Companies’ Home Page. Click “Report a Claim” on the upper left side of the page.

3. Once on the Claim Landing page, click “REPORT A CLAIM”.

---

**As of January 1, 2017**

User Name: 0790121
Password: newclaim
4. Type your **User Name** and your **Password** (listed at the top of Page 1 of this document) in the spaces provided on the Log In Screen (pictured below). Click “**OK**”.

![Log In Screen](image)

After a few seconds, you will see the New Claim Entry main screen.

5. Choose your accident state.

6. Enter the employee’s Harvard University ID (HUID).

![Employee Search](image)

7. Click on the employee’s name.

![Employee List](image)

8. Enter the claim information in the boxes provided. Move between sections by clicking the blue headings. **Required fields are blue.** You must complete all required fields before you can submit the claim.

    Dates: Use the format mm/dd/yyyy, for example 06/20/2016. Telephone numbers: Do not type the dashes.
9. On the last page, check the Record Only box only when the claim is for informational purposes. For Workers’ Compensation, this means an injured worker who will not be seeking medical treatment.

10. Type any additional information about the claim into the Comments box. Stick to the facts of the case only.

11. Click the “Send Email Copy” and type your email address in order to receive a copy the information you entered after you submit the claim. Add additional recipients to the list by typing a comma and then adding the next email address.

12. Click “Submit” to submit the claim. You will receive a claim number immediately. Keep this claim number for your records.
13. Attach reports, photos or other documents with the “Attach File(s)” button. Select files on your computer and then click “Upload File(s)”. Common file formats like .pdf, .doc, .xls, .mov, .mpg can be added, in sizes up to 50 megabytes each. Examples include doctor’s notes, job descriptions, photos, etc.

14. To enter another claim, choose “New Claim” from the bottom of the screen. When you are finished entering claims, choose “Exit” from the menu. Click “Yes” to close PMA New Claim Entry.
CHEMICAL WASTE SATELLITE ACCUMULATION AREA INSPECTION

This inspection is designed to assist University personnel (i.e. laboratory facilities maintenance, engineering & other operations personnel) with their weekly inspections of hazardous waste storage areas. This sheet delineates the essential inspection criteria and supplements compliance information on the green Satellite Accumulation Area sign posted throughout the University at hazardous waste storage areas. At least once a week, a representative should evaluate each hazardous waste container in their area using the criteria listed below. This required weekly inspection will help to ensure that storage practices are safe and in compliance with regulations.

1. **Are containers correctly labeled?** Ensure that all containers storing hazardous waste are affixed with a hazardous waste label (shown below) as soon as the first drop of hazardous waste is added.

2. **Do containers have a hazard box checked?** Check the content of the label to ensure that it is completely filled-in as described below.

3. **Is the correct hazard box checked?** Consult the labeling tool for guidance:

   ![Labeling Tool Image]

   **Front of Container Label**

   - One (or more) hazard boxes must be checked to indicate the associated hazard(s) of the waste.
   - Ignitable=flashpoint less than 140°F. Corrosive=pH less than 2 or greater the 12.5
   - Reactive=typically unstable capable of detonating at STP; react exothermally with water (emits toxic vapors, etc.); cyanide or sulfur-bearing
   - Toxic=contains substances which pose threat to personnel/environment if mishandled
   - Infectious=contains blood & blood products, pathological, infectious agents, etc.

   **HAZARDOUS WASTE**

   Federal Law Prohibits Improper Disposal CONTENTS

   Use Full Chemical Name No Formulas or Abbreviations

   Approximate % of each should be included once container is FILLED or otherwise ready for removal.

   **HAZARD**

   Ignitable=flashpoint less than 140°F. Corrosive=pH less than 2 or greater the 12.5

   **FILL OUT THE DATE WHEN THE CONTAINER IS FILLED**

   **DATE**

   The primary constituents (i.e. the constituents which render waste “hazardous”) must be written in words. Do not use symbols, formulas, abbreviations, etc. Approximate % of each should be included once container is FILLED or otherwise ready for removal. Waste must be removed from Satellite area within 3 days of this date - contact EH&S for removal.
4. Are containers labeled with words and not formulas or abbreviations? Chemical component(s) of waste mixture written out for interpretation by non-chemists- (eg. no abbreviations, IUPAC nomenclature or structures).

5. Are containers stored in secondary containment? Ensure that all containers storing hazardous waste are kept in containment trays (i.e. plastic bin, tub, etc.).

6. Are containers in good condition? Ensure that all containers storing hazardous waste are in good condition (i.e. not apt to leak/fail - no rusting, cracks, dents, etc.).

7. Are all containers closed? (Including eco funnels): Ensure that all containers storing hazardous waste are securely closed. Funnels must not remain in containers when waste is not being added. Ensure eco funnels are snapped closed.

8. Are containers with incompatible materials separated? Ensure that containers storing wastes which may be incompatible are adequately segregated (i.e. use trays, bins, etc.). Consult the Hazardous Waste Storage Compatibility Briefs compatibility guidance.

9. Are containers of virgin chemicals stored separately from waste? Research chemicals not stored in same plastic tub with waste chemicals.

10. Are there any duplicate undated waste containers? Do not create more than one waste bottle for the same waste chemicals at the same time.

11. Are there any containers past the MA three day rule? The waste label should be dated when the container becomes filled or otherwise ready for disposal and a request for a pickup should be submitted online at. The container must be removed from the satellite area within 3 days of this date by Harvard’s hazardous waste vendor.

Instances discovered which do not meet the requirements described in 1-11 should be corrected immediately. Assistance is available by contacting:

**Cambridge/Allston Campus:**

EH&S office (617) 495-2060.

**Longwood Campus:**

EH&S office (617) 432-1720.

**Thanks for your assistance in maintaining a safe and compliant work area!**
Choose an ergonomically designed chair with adjustable height and back support. It may be necessary to raise or lower the microtome to minimize wrist flexion (upward motion) and shoulder abduction (forward thrust).

For further information, please contact:

Christopher Tran
Lab Safety Advisor
Christopher_tran@harvard.edu
(617) 495-6645

www.ehs.harvard.edu
Apart from the potential risk of working daily with hazardous substances, laboratory personnel also have the potential to be exposed to many ergonomic risk factors due to the nature of their work. Ergonomic risk factors associated with laboratories are not any different from those found in the office and general industry. They consist of awkward and static postures, high repetition, excessive force, contact stresses, vibration, and pinch grip, among others.

The purpose of this guide is to disseminate information to laboratory personnel about how they can control laboratory ergonomics risk factors, improve their level of comfort while performing their jobs, and reduce the risk of acquiring occupational injuries.

Because of this rigid configuration, the cryostat leaves little room for adjustment. The best solution is to limit the time at this station and take breaks. Raise the flow cytometer to minimize extended reaches and severe neck flexion during specimen processing (and other computercontrolled equipment). Store all work materials within reach. Place all frequently used items within reach. Use a fully adjustable chair with back support and a footrest. Arms should be parallel to the floor and legs should be level. Frequently used items should be stored at the user's eye level. Use a fully adjustable desk with back support to reduce the risk of acquiring occupant injuries while performing their jobs and improve their level of comfort.晋升 laboratory ergonomic risk factors. Laboratory personnel also work daily with hazardous substances. Do not overlook this.
Collect biologically-contaminated physical sharps in a red sharps container

**Physical Sharp** - Any item capable of puncturing or cutting the skin that is biologically-contaminated goes into red sharps containers.

- For biological labs, place both biologically contaminated and clean sharps into red sharps containers.
- For non-biological labs refer to non-biological sharps disposal guidance.

**Single-Use Containers**: Close when full and place in Biowaste Bin

**Reusable Containers** *(HMS/HSDM Only)*: Collected and replaced by waste vendor

Never Overfill. Replace container when 3/4 full.
Non-Biological Sharps Disposal

1. Collect non-biological physical sharps in a puncture proof container

USE A DISPOSAL RESTRICTED WASTE (DRW) LABEL IF:
- Empty sharps (chemical residue ok, no liquids.)
- Non-chemical, non-biological, non-radioactive sharps.
- If there is still liquid in a syringe, empty the liquid in to your hazardous waste liquid container in your SAA by depressing the plunger completely.

USE A CHEMICAL HAZARDOUS WASTE LABEL IF:
- Contaminated with mercury or air/water reactives.

See www.ehs.harvard.edu for more info

2. Label the Container

3. Request a pickup online when the container is ¾ full
http://www.ehs.harvard.edu/tools

Physical Sharp - Any item capable of puncturing or cutting the skin.

OTHER CONTAINER OPTIONS:
- Green sharps container
- Shatter resistant glass jar
- Small black sharps container

DO NOT USE:
- 1 gal plastic jar (they are not puncture proof)
- Yellow sharps container (could be confused with radioactive sharps)

NOT RECOMMENDED:
- Red biological sharps bins SHOULD NOT be used but can be permitted only if the bio Symbol is COMPLETELY defaced.

Biological Labs should manage all sharps as biological sharps.

See www.ehs.harvard.edu for more info

For Longwood questions, call EHS: (617) 432-1720
For Cambridge questions, call EHS: (617) 495-2060

Rev 12-2016
CHEMICAL WASTE SATELLITE ACCUMULATION AREA (SAA)

Do you know your responsibilities for proper handling of chemical waste?

TRAINING:
Environmental regulations require training of individuals who generate or handle chemical waste (Hazardous Waste). Training must take place within six months of date-of-hire, and annually thereafter, and is included in the general lab safety and general facilities safety trainings.

Training is offered online by the Harvard Environmental Health and Safety (EH&S) Department. http://ehs.harvard.edu/training

CHEMICAL WASTE SAA INSTRUCTIONS:
Each chemical waste container must be properly labeled, closed, and stored in a Satellite Accumulation Area.

1. **Set Up** – Chemical waste containers must be stored in a designated Satellite Accumulation Area (SAA).
   a. This green sign should be posted near where you are planning to collect chemical waste.
   b. Containers for liquid waste must have secondary containment (containment bin or a spill pallet).
   c. The SAA must be under the control of the individual generating the waste and must be at or near the point of generation.

2. **Labeling** – Each container must be tagged with a Chemical Waste/Hazardous Waste label.
   a. Fill out the label using full chemical names (*NO chemical formulas or abbreviations are permitted*)
   b. Check the correct hazard box; at least one hazard box must be checked off.
   c. Make sure that the label is visible without touching or moving the bottle and not blocked from view.

3. **Storage** – Containers must be closed, in good condition, and segregated from incompatibles.
   a. Containers and lids must be free of rust or breakage.
   b. The lid must be closed so that if it were knocked over the chemicals would not leak out. (*Regulations do not permit open funnels in waste containers. “Eco-funnel” lids must be shut and latched.*)
   c. Stock virgin chemicals must be stored separately from waste chemicals.
   d. Only fill one container of the same type of waste at one time (*NO duplicate waste streams*).

WEEKLY INSPECTIONS:
All persons who generate chemical waste are responsible for visually inspecting their SAAs weekly, looking for leaks and for deterioration (caused by corrosion or other factors) of containers and secondary containment, and ensuring labeling requirements are compliant with the regulations as listed above.

CHEMICAL PICKUP REQUESTS:
When a container is full, write in today’s date and submit a pickup request online or via phone. If the container is not picked up within 3 days, immediately notify EH&S at the phone number below:

CAMBRIDGE CAMPUS: 617-496-3322  LONGWOOD CAMPUS: 617-432-1720
ONLINE: http://ehs.harvard.edu/tools

PI: ___________________________  Safety Contact: ___________________________  Phone Number: ____________
DRW – Disposal Restricted Waste

There are a number of waste types that are generated through research and university operations that are have reduced regulatory requirements but that pose a risk to the greater Harvard community. The DISPOSAL RESTRICTED WASTE (DRW) label is being implemented in order to help to clarify waste management practices, reduce risk, and improve hazard communication for the university.

How to use this Label

1. If your waste is either Hazardous chemical waste, Radioactive waste, Biological waste or Universal waste then this is the wrong label for your waste.
2. If your waste is not listed above, then determine if your waste falls into one of categories listed on the DRW label as described below.
3. Select an appropriate container, affix the label, date the label with the date you started accumulating the waste and check off the appropriate box on the label.

<table>
<thead>
<tr>
<th>Waste Type</th>
<th>Instructions</th>
<th>Container to Use</th>
<th>Disposal</th>
<th>Why is this waste Disposal Restricted?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agarose or Polyacrylamide Gels</td>
<td>Gels may or may not contain Ethidium Bromide, SYBR green, SYBR gold, or other mutagens/heratogens.</td>
<td>Gels typically contain mutagenic concentrations of 0.3-0.5 ug/ml. In these low concentrations, trash disposal is allowed if the procedures to the right are followed. If not handled properly these waste streams can cause issues with garbage odors and custodial concerns over exposure to lab chemicals.</td>
<td>Collect near (but not in) your hazardous waste satellite accumulation area for pickup by the chemical waste vendor. When Container is ¾ full request a pickup at <a href="http://www.ehs.harvard.edu/tools">www.ehs.harvard.edu/tools</a></td>
<td>Ethidium bromide, Sybr green, and Sybr gold contain known mutagens and should be disposed of properly to prevent impacts to aquatic life.</td>
</tr>
<tr>
<td>Metal Blades</td>
<td>Collect metal blades (razors, scalpels, saws) in a shatter resistant glass jar to allow for recycling. Metal blades may be recycled if not contaminated with hazardous materials (cutting oil is ok) and not co-mingled with needles or glass sharps.</td>
<td>Collect near (but not in) your hazardous waste satellite accumulation area for pickup by the chemical waste vendor. When Container is ¾ full request a pickup at <a href="http://www.ehs.harvard.edu/tools">www.ehs.harvard.edu/tools</a></td>
<td>If disposed of improperly, sharps present a significant hazard to coworkers, custodial staff, and waste management staff.</td>
<td>If not dried or in sealed containers gels can decay and cause nuisance odors in labs and dumpsters.</td>
</tr>
<tr>
<td>Non-Biological Sharps</td>
<td>Physical sharps (any item capable of puncturing or cutting the skin). Includes needles, syringes, slide covers. May be contaminated with solvent residue. No liquids or mercury.</td>
<td>Collect near (but not in) your hazardous waste satellite accumulation area for pickup by the chemical waste vendor. When Container is ¾ full request a pickup at <a href="http://www.ehs.harvard.edu/tools">www.ehs.harvard.edu/tools</a></td>
<td>If disposed of improperly, sharps present a significant hazard to coworkers, custodial staff, and waste management staff.</td>
<td>105 CMR 480 prohibits even unused needles from being disposed of in the trash.</td>
</tr>
<tr>
<td>Other Disposal Restricted Waste</td>
<td>Waste that can’t go down the drain or in the trash and/or that needs further evaluation/analysis before drain disposal (examples are glycol, vegetable oil, or wastewater pending analysis). List constituents in the container in the space provided and contact EHS for assistance with collecting analytical if characterization is needed.</td>
<td>A container that is in good condition, that can close tightly and that is compatible with the waste.</td>
<td>Request a pickup at <a href="http://www.ehs.harvard.edu/tools">www.ehs.harvard.edu/tools</a> or if approved for drain disposal by EHS then dispose down the drain once analytical results confirm that drain discharge is permitted.</td>
<td>Certain materials are prohibited from discharge by university wastewater discharge permits and must be analysed/approved for discharge.</td>
</tr>
<tr>
<td>Regulated Recyclable Material – Mercury amalgam or Solvents for Recycling</td>
<td>Select the material that your location is generating. A Class A recycling permit must be submitted to manage your waste in this manner. Contact EHS for assistance.</td>
<td>A container that is in good condition, that can close tightly and is compatible with the waste.</td>
<td>Collect near (but not in) your hazardous waste satellite accumulation area. Follow procedures established for your location to manage these regulated recyclable materials</td>
<td>This material would be considered hazardous waste if not permitted for recycling. Regulated Recyclable Material must be managed in accordance with 310 CMR 30.200 which requires either onsite or off-site recycling.</td>
</tr>
</tbody>
</table>
This guide does not apply to the storage of hazardous waste or gases under pressure.

**Start**

Is the following GHS Pictogram on the label?

**Instructions**

- Before using this decision logic, read the General Storage Guidelines in the box below.
- From Start, move downward until you reach a GHS pictogram that is on the label (below).
- Follow the decision logic to identify the Storage Group and recommended storage locations. If the logic returns you to another pictogram, continue to move downward until you reach a pictogram on the label.
- Read any additional recommendations associated with the storage group and location.
- Always review Sections 7.2 Conditions for Safe Storage and 10. Stability and Reactivity of the Safety Data Sheet (SDS) to determine any special storage requirements and to verify compatibility.
- Separate all chemical storage groups. Storage in separate cabinets or locations always meets this requirement and is preferred. Separate storage groups using secondary containment bins. Also meet this requirement unless specifically prohibited in this guide.

**Note:** If the product does not have a GHS label search Sigma Aldrich or go to ChemWatch and look at their Gold SDS for the same product and use Section 2: Hazard Identification of their SDS to complete the decision logic.

**General Storage Guidelines**

- Store chemicals only in cool, dry areas.
- Do not store chemicals in direct sunlight or near a heat source.
- Only store chemicals in well-ventilated areas. Do not store gases or volatile chemicals in unventilated cold or warm rooms.
- Avoid storing chemical on the floor. If unavoidable, then store in a secondary containment bin.
- Try to store liquids below eye level. Have appropriate safety glass or ladder available if chemicals are stored at higher levels.
- Designated labels should be used for peroxide forming chemicals. Record received and opened date on the label of all time-sensitive chemicals.
- Return chemicals to designated storage location when not in use. Do not store chemicals in any fume hood used to conduct laboratory procedures.
- Carefully reseal opened containers before returning to storage. Replace broken, cracked or deteriorated caps.
- Clearly separate chemical storage from hazardous waste storage.

**Storage Group Explosive/Flammable (EA)**

- Use only lab safe refrigerator/freezer for cold storage.
- Do not store any organic acids in a storage cabinet.
- Do not store on bare (uncoated) wood or other combustible material.
- Use a secondary containment bin to separate from acids if stored in same cabinet.
- Place hydrofluoric acid in dedicated secondary containment bin. Do not store in same cabinet with organic chemicals including Organic Acids.
- Avoid storing chemicals on the floor. If unavoidable, then store in a secondary containment bin. If feasible, do not store on bare (uncoated) wood or other combustible material.
- Use the decision logic to determine separation from other storage groups.
- Return chemicals to designated storage location when not in use. Do not store chemicals in any fume hood used to conduct laboratory procedures.
- Carefully reseal opened containers before returning to storage. Replace broken, cracked or deteriorated caps.
- Use Teflon tape and paraffin as indicated to control fugitive emissions of volatile hazardous chemicals.
- Note: If the product does not have a GHS label search Sigma Aldrich or go to ChemWatch and look at their Gold SDS for the same product and use Section 2: Hazard Identification of their SDS to complete the decision logic.

**Storage Group Pyrophorics/Water Reactives (PIA)**

- Use only lab safe refrigerator/freezer for cold storage.
- Do not store in flammable storage refrigerator/freezer/Freezer.
- Secure cabinet, as required.
- Place flammable organic acids in dedicated secondary containment bin.
- Venting a flammable storage cabinet is not recommended. Contact EHS about requirements before venting.
- Place hydrofluoric acid in dedicated secondary containment bin. Do not store in same cabinet with organic chemicals including Organic Acids.
- Avoid placing in unvented metal cabinet unless designed for corrosive/acid storage.
- Use Teflon tape and paraffin as indicated to control fugitive emissions of volatile hazardous chemicals.
- Note: If the product does not have a GHS label search Sigma Aldrich or go to ChemWatch and look at their Gold SDS for the same product and use Section 2: Hazard Identification of their SDS to complete the decision logic.

**Storage Group Flammable Liquids (FL)**

- Use only lab safe refrigerator/freezer for cold storage.
- Do not store in flammable storage refrigerator/freezer.
- Secure cabinet, as required.
- Place flammable organic acids in dedicated secondary containment bin.
- Venting a flammable storage cabinet is not recommended. Contact EHS about requirements before venting.
- Place hydrofluoric acid in dedicated secondary containment bin. Do not store in same cabinet with organic chemicals including Organic Acids.
- Avoid placing in unvented metal cabinet unless designed for corrosive/acid storage.
- Use Teflon tape and paraffin as indicated to control fugitive emissions of volatile hazardous chemicals.
- Note: If the product does not have a GHS label search Sigma Aldrich or go to ChemWatch and look at their Gold SDS for the same product and use Section 2: Hazard Identification of their SDS to complete the decision logic.

**Storage Group Flammable Gases (FG)**

- Use only lab safe refrigerator/freezer for cold storage.
- Do not store in flammable storage refrigerator/freezer.
- Secure cabinet, as required.
- Place flammable organic acids in dedicated secondary containment bin.
- Venting a flammable storage cabinet is not recommended. Contact EHS about requirements before venting.
- Place hydrofluoric acid in dedicated secondary containment bin. Do not store in same cabinet with organic chemicals including Organic Acids.
- Avoid placing in unvented metal cabinet unless designed for corrosive/acid storage.
- Use Teflon tape and paraffin as indicated to control fugitive emissions of volatile hazardous chemicals.
- Note: If the product does not have a GHS label search Sigma Aldrich or go to ChemWatch and look at their Gold SDS for the same product and use Section 2: Hazard Identification of their SDS to complete the decision logic.
**Laboratory Common Items Disposal Guidance**

**Glass Trash:** Clean, broken or intact glass goes in a broken glass box and is removed by custodial services when the bag is tied and the box is closed and sealed with tape. Please place box in the hallway for pickup.

**Used Filter Cartridges from a RO Water Filtration Unit:** These items can be recycled by using the Hazardous Waste pickup online form – please click on the “Water Cartridge Recycling” under the Chemical Waste Services and stick the cartridge in a easily seen location near your SAA (Note: DO NOT place the cartridge in your SAA).

**Reusable or Disposable Solid Biowaste Containers:** the bag inside must be tied and the lid closed (cardboard boxes must be taped shut). These containers are moved to the hallway where they are picked up by custodial services.

**Old Electronics:** contact custodial services through Operations (see below for contact based on your location). Custodians will take these items. However, the hard drive must be removed.

**Small Batteries:** all small types of batteries are recycled after being put in these Universal waste containers – these containers are generally located near the security desk in your building – See https://green.harvard.edu/topics/waste/e-waste for a map of collection containers.

**Large Batteries:** Put these items out through your Satellite Accumulation Area (SAA) where you place your hazardous waste – these must be tagged and a waste request submitted.

**Mercury Containing Fluorescent Lightbulbs:** These bulbs are considered a Universal Waste. Request a pickup by contacting Operations (see below for contact based on your location)

**Mercury Containing Thermometers/Bulbs:** Please put these items out through your SAA (Satellite Accumulation Area). Mercury containing bulbs in this case contain visible liquid mercury (silver liquid).

**Regular Light Bulbs:** These are considered regular trash and should be disposed of in a broken glass container.

**Used Pump Oil:** dispose of through your SAA (Satellite Accumulation Area) – used pump oil is regulated by the State of MA as a hazardous waste

**Operations Contact Info:**
If your lab is in Cambridge or the TH Chan School of Public Health, contact University Operations: extension x5-5560 from university landline or 617-495-5560 on cell phones. Cambridge labs may email requests to UOS.Operations@harvard.edu. Chan School labs should submit a work order for all custodial requests https://www.hsph.harvard.edu/operations/services/custodial/

If your lab is in the Harvard Medical School or School of Dental Medicine, contact the Facilities Call Center at extension x2-1901 from university landline, 617-432-1901 on cell phones or email facilitiescallcenter@hms.harvard.edu