Lab Safety Officer Meeting Agenda
October 4, 2016

- News and Updates
- UVM Police Services, Office Sue Roberts
- Summary of Audits
- Laboratory Safety: Back to Basics
  - Monthly self-inspections
  - Certify corrective actions in LabCliq
  - Lab Safety Notebook
  - Training requirements
- CITI Training Opportunities, Dr. Alexandra Potter
- Q&A
Discuss failure to evacuate at Votey
University of Hawaii at Manoa  March 16, 2016

55% H2, 38%O2, 7%CO2 to create food for biofuel bacteria

Thea Ekins-Coward loses arm in University of Hawaii explosion

Raised awareness of lack of insurance and coverage for graduate students, post-docs and spouse/partners
UCCenter for Lab Safety was called in to investigate
the lab passed a safety inspection in January in part by properly storing $H_2$ and $O_2$
cylinders 6 meters apart.
no one questioned storing a mixture of the gases in a 49-L steel tank designed for
compressed air and not electrically grounded
the inspection used a typical checklist focusing on storage of chemicals and chemical
waste, gas cylinder storage, laboratory fume hood certification, and documentation
of training.

“The message to other researchers is that they need to do a better job of educating
themselves about the hazards of the materials they’re working with” and what could go wrong, says Craig A. Merlic, UCCLS executive director and a chemistry professor at UCLA.
Hawaii OSHA investigated
The explosion cost about $716,000 in infrastructure damage and
$60,000 to $100,000 in equipment losses, and
UCCLS was paid $88,000, says UH spokesman Dan Meisenzahl.
115,500 fine
TOTAL ~$1M plus costs to researcher
This will likely be guiding our work over the next year.
$275,000 for un-managed chemicals
~ 2,000 containers
- Failure to make waste determination, failure to have a permit to TSD waste (>1yr),
  Failure to label
- EXPOSE STUDENTS TO GREAT RISK
DEC has asked for list of labs covered under Academic Waste Rule. THEY PLAN TO INSPECT BOTH CAMPUS AND ESF THIS FISCAL YEAR (Started Saturday) EPA inspected ESF 14 months ago. We expect to receive their findings this week UVM Audit Services finished audits of 3 academic units and will present findings to senior leadership and BOT soon. 22% researchers have not completed required safety educational opportunities. Lab Notebooks not complete. THE RATE OF NON-COMPLIANCE MAY BE AN INDICATION THAT A CULTURE OF SAFETY IS NOT FULLY REALIZED THROUGHOUT THE UNIVERSITY VOSHA, DOT, DEA, etc are still there too
POLICY AND PLANS TO THE RESCUE!
Run, Hide, Fight video from U.S. Dept of Homeland Security
https://www.youtube.com/watch?v=5VcSwejU2D0
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<thead>
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<tbody>
<tr>
<td>All appropriate online and classroom safety training courses have NOT been completed.</td>
<td>210</td>
<td>50</td>
<td>15</td>
<td>52</td>
<td>93</td>
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<tr>
<td>Chemical waste is older than 6 months.</td>
<td>114</td>
<td>20</td>
<td>7</td>
<td>33</td>
<td>54</td>
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<tr>
<td>UVM Waste Accumulation labels or tags are NOT completely filled out when any chemical</td>
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<td>waste is present in the container.</td>
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<td>Reports of hazard assessments are NOT available or are incomplete. (e.g. chemical use and</td>
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<td>planning form or other specific assessments)</td>
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<td>The Laboratory Online Inventory (HOCO) has NOT been updated within the last 6 months with</td>
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<td>any new employees, critical equipment needs, and new chemicals.</td>
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<td>Chemical containers are NOT fully labeled with English name, hazards, date opened, and</td>
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<td>responsible party.</td>
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<td>Research samples are NOT labeled appropriately. (i.e. responsible party, sample identification,</td>
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<td>primary hazards, date material made)</td>
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<td>The information in the UVM lab registry is NOT current for this space. (e.g. PI, LSO, contact</td>
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<td>information, etc.)</td>
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<td>The information listed on the Emergency Contact door sign is NOT current.</td>
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<td>Lab monthly self-inspections are NOT been conducted.</td>
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<td>The eyewash flush log is NOT visible and current.</td>
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<td>TOTAL INSPECTIONS</td>
<td>771</td>
<td>247</td>
<td>43</td>
<td>215</td>
<td>266</td>
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This will be guiding our action over next few weeks
https://labcliq.com/summary/summary.cfm?

Department of Risk Management and Safety
Over 400 corrective actions need to be closed out before we are inspected. This will guide us
Lee is going to go over how to navigate LabCliq to close these out
Lab Safety: Back to Basics
Review:
UVM Lab Safety MONTHLY Self-Inspection

Department of Risk Management and Safety
UVM Monthly Lab Self-Inspection
What is required?

2016 Laboratory Safety Monthly Self-Inspections

Laboratory Safety Officer:

NOTES
DATE DISCREPANCY RESOLUTION (WITH DATE)

Please complete these forms annually.

Date Completed

1. Annual Refresher training required for every lab worker unless new this year.
2. Detox filters and refrigerator—check the detergent scale.
3. Label samples for archival storage (if applicable).

www.uvm.edu/safety
After you conduct your self-inspection, Check/Circle the MONTH.

Circle N/A if an item does not apply in your lab.
Please don’t just check off the boxes!
Have questions about an item on the checklist?

5) Chemical Safety
Preparing for Chemical Work
www.uvm.edu/safety/lab/chemical-safety

Review current assessments (CUPFs/SOPs) with new lab hazards of new protocols and procedures. Update SOPs on:

1) Chemical Use Planning Forms (CUPF) or approved assessments, are complete & current.
2) All lab workers have reviewed lab CUPFs or assessments.
3) All lab workers (including new and temporary) have reviewed UVM's required Safety training.

Go to the Website link!

Or

Email: safety@uvm.edu
We deliver these documents to departments *in January*!
You receive notification that a Lab Safety Audit has been completed in your lab…

Hello Lee Diamond,

An inspection has been completed for 101 within Environmental Safety Facility - 667 Spear St. To view the inspection report please go to: http://labclq.com/lumns/report.cfm?insp_id=969&insp_id=25

As a result of this inspection one or more corrective actions have been identified for which you are responsible. For each corrective action, you must do one of the following:

- Certify corrections have been completed.
- Request an extension.
- Reassign corrective actions to someone else.

To view the corrective actions, please go to: http://www.labclq.com/lumns/corrective_actions.cfm?insp_id=969&insp_id=25

For help in completing the corrective actions, visit our tutorial website: http://www.umd.edu/safety/lab/labclq-tutorial

Thank you,
University of Vermont Risk Management & Safety Team

For directions regarding corrective action procedures, visit our website: http://www.umd.edu/safety/lab/labclq-tutorial
Accessing Your Lab Audit Using LabCLiq

www.labcliq.com

Login using your FULL EMAIL ADDRESS

ldiamond@uvm.edu

Department of Risk Management and Safety
**The First Screen You Will See…**

### Corrective Actions

<table>
<thead>
<tr>
<th>Facility</th>
<th>Room</th>
<th>Inspect</th>
<th>Tier</th>
<th>Open</th>
<th>Due</th>
<th>Actions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Safety Facility</td>
<td>101</td>
<td>Oct 3, 2016</td>
<td>2</td>
<td>Oct 17, 2016</td>
<td>Oct 17, 2016</td>
<td>![Checkmark]</td>
</tr>
</tbody>
</table>

*Department of Risk Management and Safety*
Your Audit Report Can Be Viewed 2 Ways:
in **SIMPLE** View or **FULL** View

- Mar 18, 2016
- Dec 13, 2013

Simple Report

Department of Risk Management and Safety
**Inspection Findings:**

**Corrective Actions**
- View, edit, and complete pending corrective actions.

**Summary Reports**
- A summary of all inspections completed. This tool provides the capability to view both at a high level and down to a specific inspection.

**Complete Inspections**
- View Completed Inspections
How to review an audit

1. Go to: Safety In Laboratory
2. Go to: Lab Supervisor Responses
3. Click on: Laboratory Audits

*NOTE: The web browser Safari may not be friendly with LabCliq. Use Google Chrome or another browser when logging in to www.labcliq.com.

Laboratory safety audits are conducted by the Risk Management & Safety staff on a routine basis.

It is the responsibility of the Lab Supervisor to complete any required action items assigned during a UVM lab safety audit.

Lab Supervisors are required to LOGIN to the LabCliq audit program to respond to an audit. By responding to an audit in this way, it documents that "corrective actions" have been taken in response to safety deficiencies noted in the audit report.

Questions relating to the required corrective actions
Contact your Lab Safety Coordinator
Other Lab Safety Tidbits

- Shared Rooms (temperature controlled, equipment, etc)
  - HOW DO YOU MANAGE?

- Remembering non-routine tasks
  - Cleaning ultra-low temp freezer filters
  - Waste 6-month limit
  - Lab registry update
New UVM Training Requirements

- Starting Spring 2017 there will be new training requirements for ALL researcher personnel on protocols reviewed by IBC.
- Separate trainings are offered for those only working on BSL1 protocols only and those working on BSL2 protocols.
- Required training will consist of an initial training and refresher training every three years.
- UVM has contracted with Collaborative Institutional Training Initiative (CITI Program) for training (human subjects, laboratory animals, biohazardous materials)
- CITI Program is used by thousands of institutions to train researchers.
Why the Change?

- Data from other institutions shows that researcher training (including periodic retraining) results in fewer instances of non-compliance.
- Single training platform for multiple types of research at UVM
- Increased efficiency for researchers and research administrators
- Transferable to many other Institutions
- Many additional training opportunities offered at no additional cost
Content of UVM’s CITI Training

- 2 components
  - Core biosafety information from CITI Program
  - Local content (written by UVM biosafety personnel)
    - covers UVM research process

- Expected training time is about 1 hour

- Tracking of training will be done electronically - with a “look-up” system
Questions

FORGET LAB SAFETY
I WANT
SUPER POWERS