

EH&S Presents...

LSR Meeting

April 22, 2010



Agenda

- Introductions
 - Lab Inspection Process Update
 - Useful Info
 - Incidents
 - UCLA Cal-OSHA Audit
 - IIPP/CHP Binder Review
 - Safety Glasses
-

Introducing...

Rad Team 2010




Gregg Cohn

Vern Ares

Marcus Balanky

Lab Inspections Update

Spring 2010

- Chemistry Dept complete
- METOX – April
- MCD Bio Dept – May
- COH / LML – June
-  - July

Deficiency Correction Notice - Laboratory Safety Survey



UCSC Environmental Health and Safety Programs

Survey Date: June 16, 2002

Industrial Hygiene Services

EH&S Trailer

Buddy Morris

Please date, initial, and return this page to EH&S as soon as all items are corrected or by **June 23, 2002**.

Inspection Details:	Severity Risk	Days to Correct	Correct by Target Date	Corrected?	Corrected: (date/initial)
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Records and Documentation - IIPP

Lab Group

- | | | | | | |
|---|-------------|---|----------|----|-------|
| 1. Safety training required for your operations has not been provided to all employees. | High | 5 | 7/4/2002 | No | _____ |
|---|-------------|---|----------|----|-------|

Lab Standard Compliance

Lab Group

- | | | | | | |
|---|-------------|----|-----------|----|-------|
| 2. Chemical wastes are not properly managed in the lab. | High | 5 | 6/23/2002 | No | _____ |
| 3. Chemical wastes are not properly managed in the lab. | High | 5 | 6/23/2002 | No | _____ |
| 4. Flammable chemicals are stored close to sources of ignition. | High | 5 | 7/6/2002 | No | _____ |
| 5. Flammable chemicals are stored close to sources of ignition. | High | 5 | 7/7/2002 | No | _____ |
| 6. Chemicals which are potentially very hazardous (explosive, reactive, carcinogenic, etc.) are not being properly managed. | High | 5 | 7/6/2002 | No | _____ |
| 7. Facilities Inappropriate for Work Activities | Med | 14 | 7/16/2002 | No | _____ |
| 8. Facilities Inappropriate for Work Activities | Med | 14 | 7/16/2002 | No | _____ |
| 9. Facilities Inappropriate for Work Activities | Med | 14 | 7/16/2002 | No | _____ |
| 10. Old chemicals are being stored. | Med | 14 | 7/15/2002 | No | _____ |
| 11. Excess quantities of flammable liquids are stored in the lab. | Med | 14 | 7/15/2002 | No | _____ |
| 12. Glass waste containers are not properly managed in the Lab. | Med | 14 | 7/2/2002 | No | _____ |
| 13. Glass Trash Containers not used. | Med | 14 | 7/2/2002 | No | _____ |
| 14. Switch cover is missing. | Low | 30 | 8/1/2002 | No | _____ |
| 15. An electrical cord is not properly channelled. | Low | 30 | 8/1/2002 | No | _____ |
| 16. The boiler permit on the autoclave is expired. | Low | 30 | 8/1/2002 | No | _____ |
| 17. Shelves do not have restraints to prevent items from falling. | Low | 30 | 8/1/2002 | No | _____ |
| 18. Equipment such as book shelves, cabinets, or storage shelves are not seismically braced. | Low | 30 | 8/1/2002 | No | _____ |

Waste Issues



- Compact fluorescent bulbs
 - Do **NOT** put in trash
- No lab glassware in recycle bins!
- Empty reagent bottles
 - Deface label and place directly in dumpster
- Cylinder disposal shipment imminent...

- <http://ehs.ucsc.edu/2010ewaste/>

SHIPPER'S DECLARATION FOR DANGEROUS GOODS

(Provide at least three copies to the airline.)

Shipper
 UC Santa Cruz
 1156 High Street (Ocean Sciences Dept)
 Santa Cruz, CA 95064
 Phone: 831-459-2682

Air Waybill No.
 Page 1 of 1 Pages
 Shipper's Reference Number

Consignee



Two completed and signed copies of this Declaration must be handed to the operator

WARNING

Failure to comply with all respects with the applicable Dangerous Goods Regulations may be in breach of the applicable law, subject to legal penalties.

TRANSPORT DETAILS

This shipment is within the limitations prescribed for: (delete non applicable)

PASSENGER AND CARGO AIRCRAFT

CARGO AIRCRAFT ONLY

Airport of Departure

Airport of Destination:

Shipment type: (delete non-applicable)
 NON-RADIOACTIVE

NATURE AND QUANTITY OF DANGEROUS GOODS

Dangerous Goods Identification				Quantity and type of packaging	Packing Inst.	Authorization
UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack-ing Group			
UN						

Additional Handling Information

ChemTrec 24-hr Emergency Response: 1-800-424-9300 (US); +1 (703) 527-3887 (International)

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable International and National Governmental Regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of Signatory

Place and Date
 Santa Cruz, CA, February 24, 2009

Signature [A typed signature may be used if the origin and destination are in the United States or its territories.]

1-800-424-9300

Emergency Telephone Number

FOR RADIOACTIVE MATERIAL SHIPMENT ACCEPTABLE FOR PASSENGER AIRCRAFT, THE SHIPMENT CONTAINS RADIOACTIVE MATERIAL INTENDED FOR USE IN OR INCIDENT TO RESEARCH, MEDICAL DIAGNOSIS, OR TREATMENT. ADR EUROPEAN TRANSPORT STATEMENT. CARRIAGE IN ACCORDANCE WITH 1.1.4.2.1









New Eyewashes for Sinsheimer



Fume Hood Sticker

KEEP SASH AT OR BELOW THIS LEVEL



Keep Sash Below RED ZONE Hood Set-up Only!

Materials: White Vinyl
Qty: _____
Size: 2' x 25" Rectangle
Company: University of California, Davis
File Name: BechRedZoneLL.eps.gfi

PLEASE PROOF MOCK UPS CAREFULLY
DO NOT CLOSELY FOR:
- SPILLAGE TYPIC
- OPERATIONAL
- COLORS CAN ONLY BE CHECKED BY USING
A PANTONE SOLID COATED COLOR BOOK

BLACK

#19 FIRE RED * PMS 200

#41 BRIGHT GREEN * PMS 354

#10 PANTHOSE YELLOW * PMS 102

UCLA Cal-OSHA Inspection Update



vs.

UCLA

UCLA Cal OSHA Inspection

- Select Citations:
 - ❑ Lab coat too large
 - ❑ Chemical storage without secondary containment
 - ❑ **Chemical Hygiene Plan** not updated and incorrect
 - ❑ Unlabeled chemical containers
 - ❑ MSDSs not readily available
 - ❑ Broken door on chemical storage cabinet
 - ❑ ... “had not implemented procedures contained in the Injury and Illness Prevention Program for periodic inspections” ...

UCLA Cal OSHA Inspection, cont'd

■ More citations:

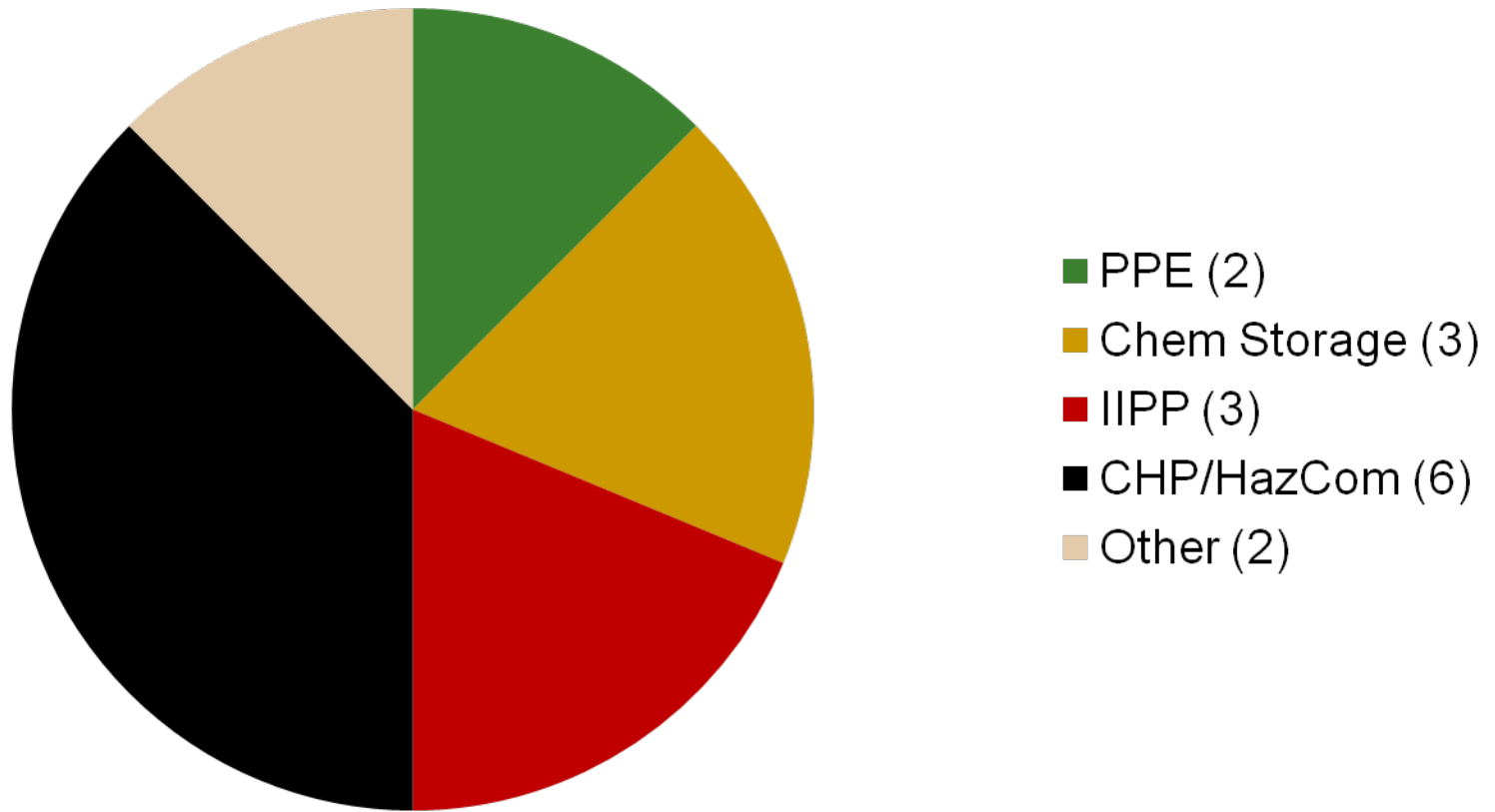
- ❑ ...”did not include inspection of work practices and standard operating procedures for particularly hazardous substances” ...
- ❑ No training on protection against particularly hazardous substances
- ❑ Storage of flammable and pyrophoric materials in an unrated refrigerator
- ❑ No standard operating procedures for chemicals with acute toxicity, carcinogens, reproductive toxins

UCLA Cal OSHA Inspection, cont'd

- “Repeat Serious” violation (\$27,000)
 - ... “the employer had not provided training to laboratory employees regarding the hazards and required additional protection when working with particularly hazardous substances, including select carcinogens, reproductive toxins, and chemicals with a high degree of acute toxicity, including, but not limited to, methylene chloride, benzene, formaldehyde, ethidium bromide, and osmium tetroxide.”
-

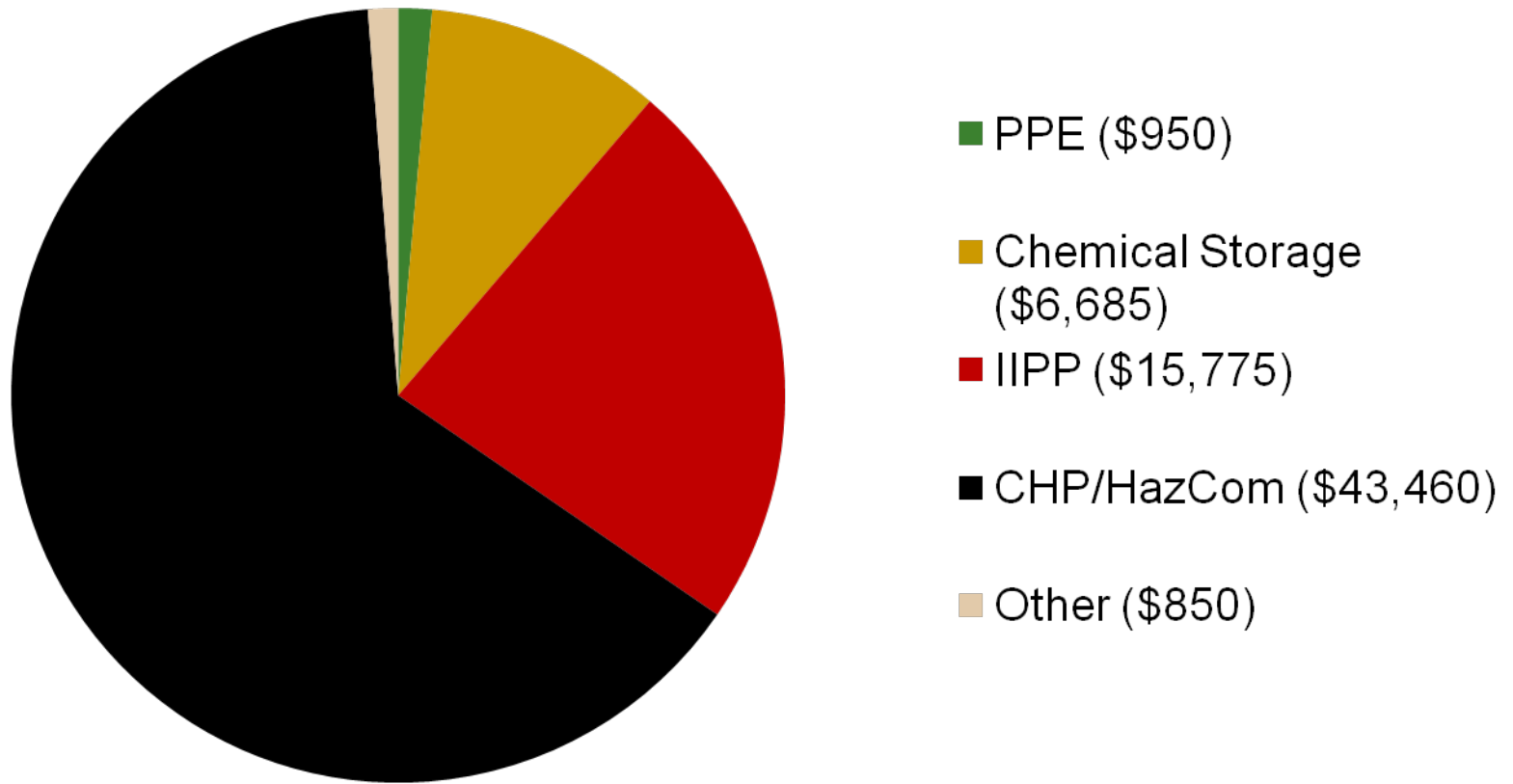
Cal OSHA Citations – UCLA Inspection

Citations



Cal OSHA Citations – UCLA Inspection

Fines

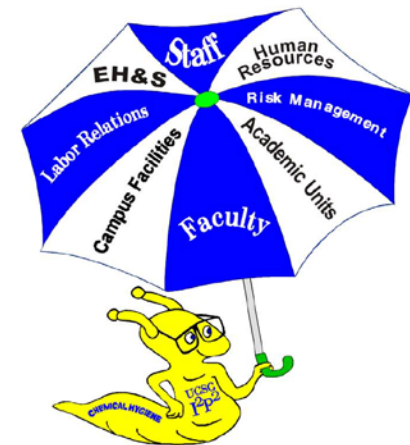


Injury and Illness Prevention Program and Chemical Hygiene Plan Review

Brent Cooley
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bcooley@ucsc.edu



INJURY AND ILLNESS PREVENTION PROGRAM



University of California
Santa Cruz

Sharps Safety

Trevor Michalchuk

Biological Safety Officer

UCSC EH&S



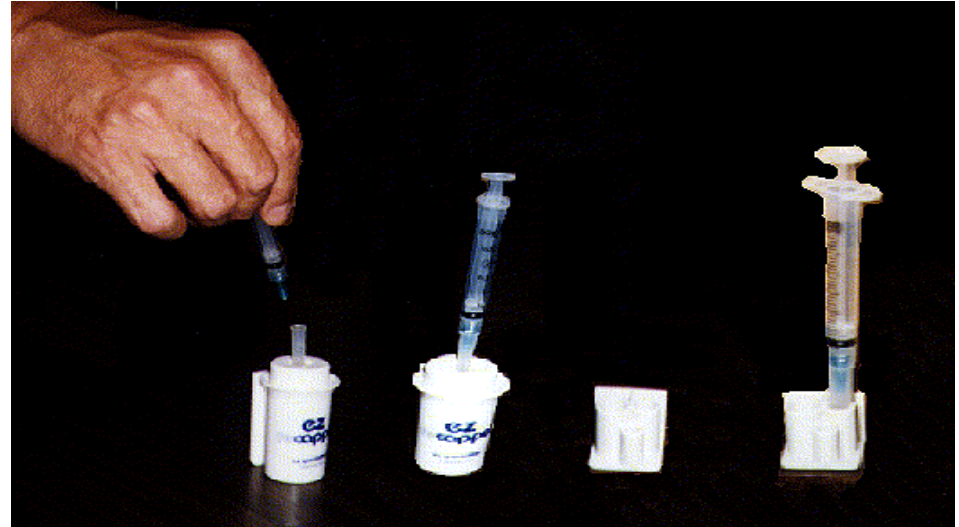
Work Place Practice Controls

- Sharps
 - ❑ Two-handed recapping of needles is prohibited
 - ❑ If no immediate access to a sharps container, use the one-handed recap method



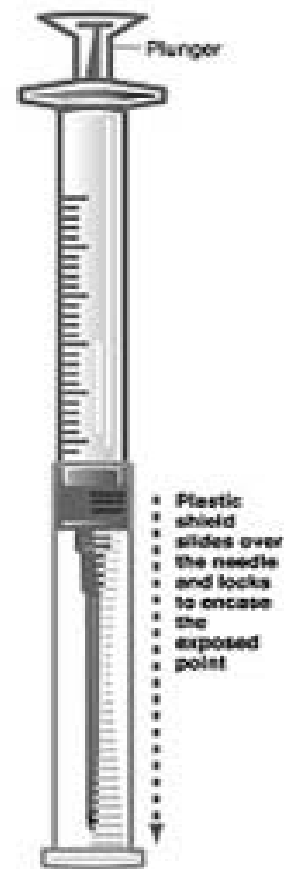
Engineering Control Devices

- Use safer sharp devices
 - Needleless IV systems
 - Retractable syringes and lancets
 - Puncture-resistant capillary tubes

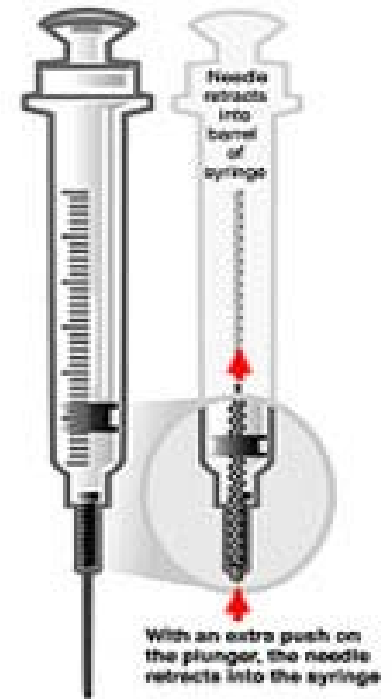


Other Engineering Control Devices

- Use safer sharp devices
 - Needleless IV systems
 - Retractable syringes and lancets
 - Puncture-resistant capillary tubes



Syringe with protective shield



Syringe with retractable needle

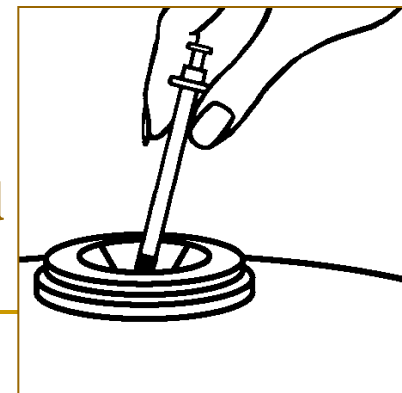
Special Practices:

SHARPS PRECAUTIONS

- Extreme caution with sharps to avoid autoinoculation or aerosol generation!
- Avoid use if alternatives exist
- Use only integral needle/syringe or needle-locking syringes
- After use needle and syringe promptly go into sharps container.



Needles should not be bent, sheared, recapped or removed from syringe before disposal!



Work Place Practice Controls



Trevor Michalchuk

Biological Safety Officer

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9-5394 or bcooley@ucsc.edu

EH&S Main Office

9-2553 or <http://ehs.ucsc.edu>



Safety Glasses

- Shape
- Size – regular vs. smaller frame
- Weight – less frame = less weight
- Adjustable earpieces
- Adjustable nose piece
- Lens coating – antifog, antiscratch

