## EH&S Presents...

# LSR Quarterly Meeting

February 1, 2012



## Agenda

- EH&S Announcements
- Waste Updates
- Inspections
  - o Schedule
  - 2011 Summary
  - 2012 Expectations
- Video
- UCLA Update
- Next Steps









## EH&S Announcements

Fume Hood Project

Keep Sash Below RED ZONE Hood Set-up Only!

ELOW THIS LEVEL

H

MORE SAFE, LESS ENERGY

PLEASE PROOF MCCONG COMPONING
PLEASE PROOF MCCONG COMPONING
PLEASE PROOF MCCONG CAREFULLY
CONTINUED TO CONTINUED COMPONING
CONTINUED
CONTI

## EH&S Announcements

#### Lab Hazardous Waste Handling Class

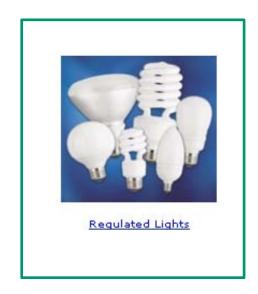
Thursday, February 9, 10:00 am – 12:00 pm

Baskin Engineering 330

#### **RECYCLING at UCSC**







#### Regulated / Recyclable Wastes

- Aerosol Cans
- Asbestos Waste
- Batteries
- Biohazardous or Medical Waste
- Cardboard
- Cell Phones
- · Compressed Gas Cylinders
- Electronic Waste
- Empty Containers
- Glass

- Hazardous Waste
- Inkjet, Laserjet, & Toner Cartridges
- Laboratory Sharps
- Light Ballasts
- Medicine/Personal Sharps
- Metal Cans
- Oil
- Paint
- Paper

- · Photographic Chemicals
- Plastic Bags
- Plastic Containers
- Plastic Pipette Tip Boxes
- Radioactive Waste
- · Refrigerators/Appliances
- Regulated Lights
- Scrap Metal
- · Treated Wood Waste

Blue = Regulated waste Pink = 1

Pink = Non-regulated waste

If you have further questions or need additional information please contact <u>Environmental Health & Safety</u> at 459-2553 or the <u>Recycling Office</u> at 459-3671.

If your waste stream was not listed above or you have ideas on how to improve this website please contact Environmental Health & Safety at <a href="https://hazwaste@ucsc.edu">hazwaste@ucsc.edu</a>.

http://ehs.ucsc.edu/waste management/pubs/recycling disposal guide.php

## LAB RECYCLING

#### UCSC Recycling and Disposal Guide

#### A to Z index

- > D = Disposal and Recycling Guide
- $\triangleright$  R = Recycling and Disposal Guide or
- > EH&S web page under waste management

## LAB RECYCLING

- > Additions to recycling streams
  - Plastic pails
  - > Metal tins
  - > PV cells ewaste
  - Working on lab plastics fingers crossed
  - > Styrofoam and cooler returns
    - New England BioLabs
    - Promega

## Pipette Tip Box Recycling & Plastic Pails Only

(No Metal Handles or Contamination)













## **PV Cells**







## The Company Pays the return of the box



POSTAGE PAID BY NEB

FROM: (YOUR ZIP CODE ONLY)

95064

POSTAGE DUE COMPUTED BY DELIVERY UNIT

TOTAL POSTAGE DUE

NO POSTA NECESSA MAII UNIT

#### MERCHANDISE RETURN LABEL

PERMIT NO. 1 NEW ENGLAND BIOLABS IPSWICH MA 240 COUNTY ROAD

POSTAGE DUE UNIT U.S. POSTAL SERVICE 27 MARKET ST IPSWICH, MA 01938-9998

RECYCLE THIS BOX

PLEASE RETURN EMPTY

#### Satellite Accumulation Area - SAA

- ☐ Trained
- ☐ Labeled with OTP tag
- ☐ Max 180 days in lab
- ☐ Clean containers and secondary containers
- □ 80% max capacity
- Segregated
- ☐ Container closed at all times

## Winning!

- ✓ Overall lab waste practices
  - ✓ Linington Lab

- ✓ Lab Safety Survey
  - ✓ Susan Williams
  - ✓ Jena Yamada

# Lab Inspection Update Winter 2012

- Physics Site visits complete, reports ongoing
- Engineering February
- Anthropology March
- Environmental Studies March
- Chemistry April
- Before the Inspection
  - Self-inspection
  - Complete last year's DCN
  - Review waste

#### **Deficiency Correction Notice - Laboratory Safety Survey**



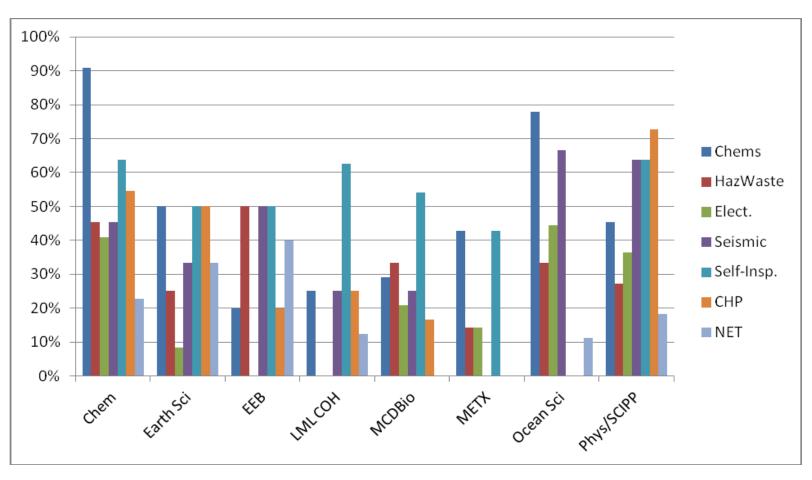
#### **UCSC Environmental Health and Safety Programs**

Survey Date: June 16, 2002 Industrial Hygiene Services

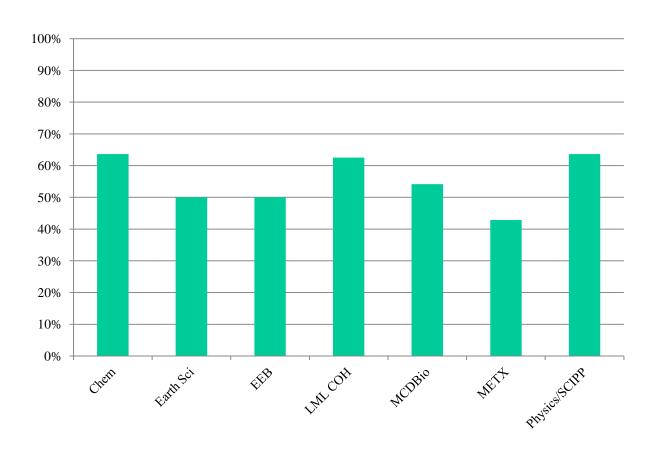
Buddy Morris EH&S Tra						
Please date, initial, and return this page to EH&S as soon as all items are corrected or by June 23, 2002.						
	Inspection Details:			Correct by Target Date	Corrected?	Corrected: (date/initial)
Records and Documentation - IIPP						
Lab Group						
1.	Safety training required for your operations has not been provided to all employees.	High	5	7/4/2002	No	
Lak	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	e
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	78
15.	An electrical cord is not properly channelled.	Low	30	8/1/2002	No	s
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	s Low	30	8/1/2002	No	

- Deficiencies
- Self-inspections
- DCNs returned
- Attendance at LSR meetings
- PPE

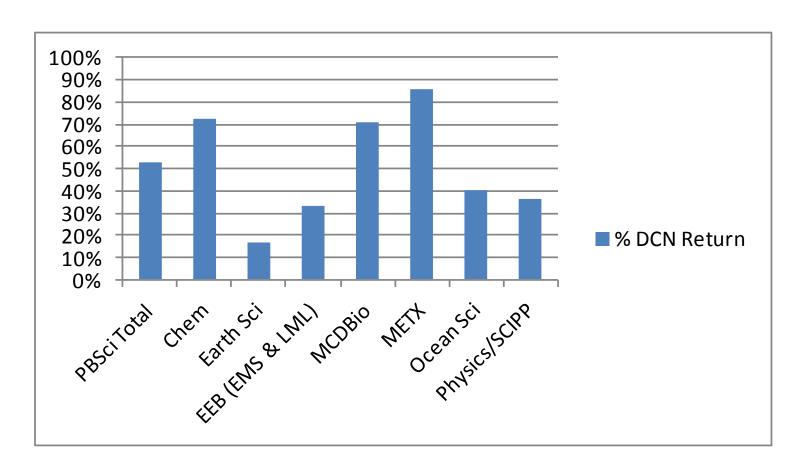
Percentage of labs with at least 1 deficiency per category



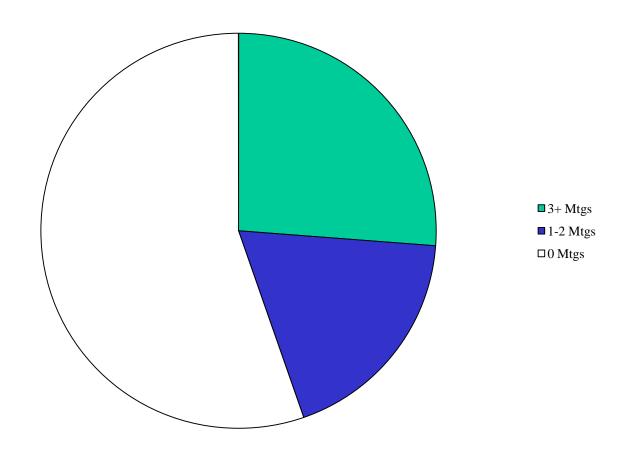
"Lab Self-Inspections Not Documented"

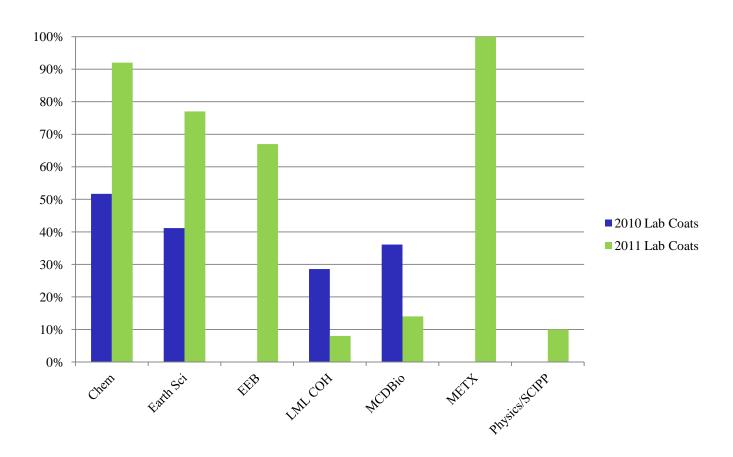


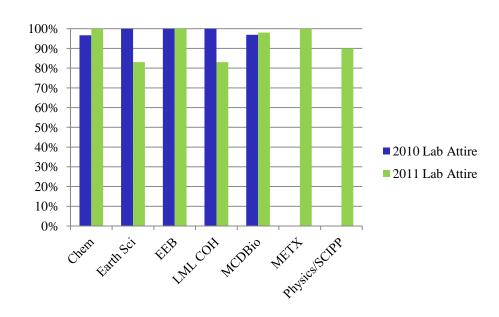
Percentage of labs returning DCNs

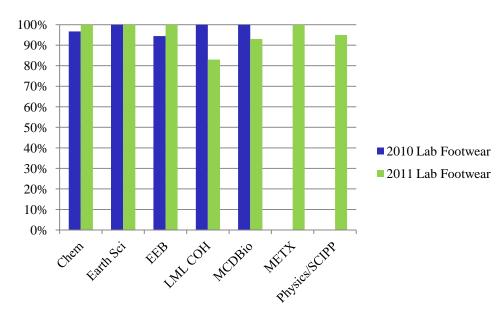


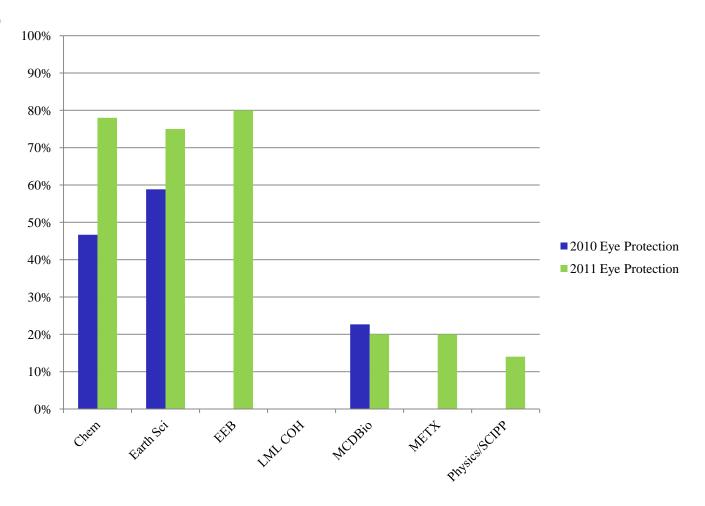
Attendance at LSR meetings (PBSci)











## 2012 Lab Inspection Expectations

- Self-inspections
- DCN to EH&S
- LSR meetings
- Training
- PPE

## 2012 Lab Inspection Expectations

- Training
  - New Laboratory Worker Health & Safety Orientation form: http://ehs.ucsc.edu/lab\_research\_safety/pubs/chp/LabEmployeeTraining.pdf
  - Laboratory Safety Training Check List: http://ehs.ucsc.edu/lab\_research\_safety/pubs/facts/Lab\_Training\_List.doc
  - Special training documentation
  - SOPs with signature sheet
    - High hazard processes
    - Particularly hazardous materials

## 2012 Lab Inspection Expectations



### 2012 Incentive

- If your lab group:
  - Conducts and documents self-inspections
  - Completes and returns the DCN
  - Attends each quarterly LSR meeting

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- Then:
  - Award for your group
  - Raffle for "big" award
- And:
  - The satisfaction of knowing you've done the right thing!

## CSB Video

- "Experimenting with Danger"
- http://www.csb.gov/videoroom/detail.aspx?VID=61

## **CSB** Video

- Recommendations
  - Include physical hazards of chemicals in CHP
  - Develop specific written protocols and training for research hazards
  - Develop an incident and near-miss reporting system

- §5191. Occupational Exposure to Hazardous Chemicals in Laboratories.
- (f) Employee information and training.
- (4) Training.
  - (A) Employee training shall include;
  - 1. Methods and observations that may be used to detect the presence or release of a hazardous chemical (such as monitoring conducted by the employer, continuous monitoring devices, visual appearance or odor of hazardous chemicals when being released, etc.);
  - 2. The physical and health hazards of chemicals in the work area; and
  - 3. The measures employees can take to protect themselves from these hazards, including specific procedures the employer has implemented to protect employees from exposure to hazardous chemicals, such as appropriate work practices, emergency procedures, and personal protective equipment to be used.
  - (B) The employee shall be trained on the applicable details of the employer's written Chemical Hygiene Plan.

#### What Is To Be Done:

- Train everyone in lab on specific hazards and processes
- Document training
  - Signed lab-specific training checklist
  - Signed SOPs
  - Other documentation of mentored procedures

#### §3203. Injury and Illness Prevention Program

- (a) Effective July 1, 1991, every employer shall establish, implement and maintain an effective Injury and Illness Prevention Program (Program). The Program shall be in writing and, shall, at a minimum:
- (6) Include methods and/or procedures for correcting unsafe or unhealthy conditions, work practices and work procedures in a timely manner based on the severity of the hazard:
- (A) When observed or discovered; and,
- (B) When an imminent hazard exists which cannot be immediately abated without endangering employee(s) and/or property, remove all exposed personnel from the area except those necessary to correct the existing condition. Employees necessary to correct the hazardous condition shall be provided the necessary safeguards.

#### What Is To Be Done:

- Perform self-inspections
- Correct deficiencies and document corrections
- Return EH&S Deficiency Correction Notice

#### §3383. Body Protection.

**(b) Clothing appropriate for the work being done shall be worn.** Loose sleeves, tails, ties, lapels, cuffs, or other loose clothing which can be entangled in moving machinery shall not be worn.

#### What Is To Be Done:

- Adequate protective measures for recognized hazards (PPE):
  - Cotton or flame retardant lab coat
  - Eye protection
  - Long pants
  - Closed toe shoes
  - Appropriate gloves
  - Other PPE as needed
  - In addition:
    - Highly flammable materials Flame retardant lab coat
    - Pyrophoric or air sensitive materials Nomex lab coat, pilot's gloves

## Next Steps

Potential Incidents / "Lessons Learned"



BSAS Funding Solutions



# Questions?