



U.S. DEPARTMENT OF
ENERGY



UNIVERSITY OF
CALIFORNIA

Upcoming Facilities Shutdowns, or Issues

Recent Electrical Shock and Close Calls

1. Non-QEW accessing capacitors. No voltage verification.
2. Shock from energized BNC cable hooked to 1kVDC 30 mA power supply, but was only set at 250 VDC at the time.
3. Live hard wired 120 VAC line unwired from rack mounted chassis. Wearing work gloves but no electrical PPE.



New Pipe Labeling Policy

- Piping existing for less that 90 days, label as needed
- Permanent lab piping needs labeled with contents and direction of flow per ANSI/ASME.

ANSI/ASME A13.1 Color Coding of Pipe Marking Labels:

Hazard Categories	Color Code	Examples
Flammable <u>or</u> Oxidizing	Black on Yellow	Oxygen; Hydrogen; Acetylene
Toxic <u>or</u> Corrosive	Black on Orange	Carbon Monoxide; Ammonia
Combustible	White on Brown	Diesel Fuel
Water (liquid only)	White on Green	Deionized Water; Domestic Water
Compressed Air or Inert Gas	White on Blue	Compressed Air; Argon

Examples of Acceptable Labels:

5% Hydrogen in Argon →
Hydrogen Chloride or Hydrogen Bromide →
1,000ppm Ammonia in Nitrogen →
Inert Gas (Ar, N ₂ , or He) →
70% H ₂ , 10% NH ₃ , bal. N ₂ →

- In cases that prevent the practical implementation of this policy as written, contact the Gases Subject Matter Expert to determine an EHS approved alternative.
- EHS intends to make up the labels **and assist researchers in labeling of piping.**

Proposed time-sensitive chemicals policy

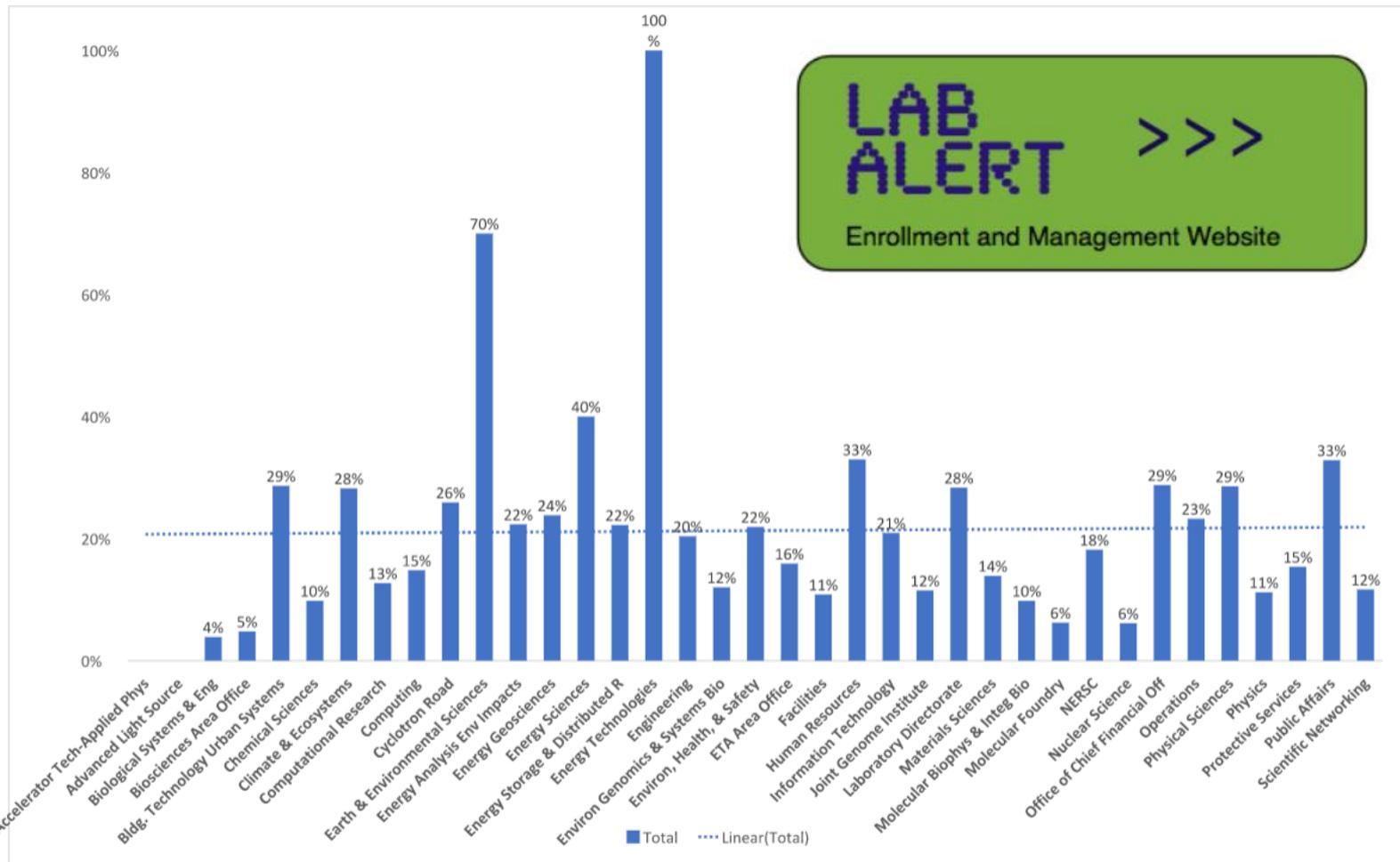
Looking to manage these types of time-sensitive chemicals

- Peroxide formers (e.g. THF)
- Unstable/Self-Reactive with Production of Gaseous Products (e.g. formic acid)
- Hazardous Polymerization (production scale only)
- Explosive When Dry (e.g. picric acid)
- Time-Sensitive Gases (HBr)

1. Chemical owners must label all time-sensitive chemical containers with an approved label.
2. All time-sensitive chemicals must be assessed on a regular basis. This time period is determined by the chemical owner, but may not exceed one year.
3. EHS will notify chemical owners every 6 months.
4. A record must be kept, either on the label or in a log.
5. When a container fails its assessment criteria the chemical owner must dispose of the container.

Everyone sign up for Lab Alert

<https://commons.lbl.gov/display/itdivision/LabAlert+-+Emergency+Broadcast+Service>



1 Minute 4 Safety

EHS Safety Minute

Brief Introduction

At Home

Authorizations

Laboratory Area

Office Area

Shop Area

Reporting

Ergonomics (general)

Training

Supervisor
Responsibilities

Site- Wide

Security

- The "1 Minute 4 Safety" slides are designed to assist Berkeley Lab supervisors and managers in conducting discussions on environment, safety and health topics with their staff.

- Each slide delivers focused talking points that can be presented in any meeting as a one minute opener or to launch a more extensive discussion.

http://www2.lbl.gov/ehs/safety_minute/index.shtml

In Case of Crisis App Available

Want up to the minute emergency information, instructions on whom to contact for an emergency, or what protective action to implement during an emergency event? This information is available right at your fingertips via any mobile communications device (smartphone, tablet, laptop) via the “In Case of Crisis” app.



<http://today.lbl.gov/wp-content/uploads/sites/3/2017/08/How-To-Download-Poster-Reduced.pdf>