INCIDENTS IN THE UNIVERSITY LABORATORY

Workers' Compensation

<table>
<thead>
<tr>
<th>Region</th>
<th>Incident Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Northeast</td>
<td>Principal Investigator exposed to toxic mercury</td>
</tr>
<tr>
<td>South</td>
<td>Principal Investigator exposed to monkey virus</td>
</tr>
<tr>
<td>Central</td>
<td>Principal Investigator dies from cocaine overdose</td>
</tr>
<tr>
<td>West</td>
<td>Graduate research assistant died from injuries in lab fire when a syringe container the pyrophoric material leaked. tert-butylthiilium self-ignited in air, a non-fire resistant lab coat ignited.</td>
</tr>
<tr>
<td>Midwest</td>
<td>Principal Investigator electrocuted, damp lab no GFCI</td>
</tr>
<tr>
<td>South</td>
<td>Failed to report biodefense research illnesses to CDC</td>
</tr>
<tr>
<td>West</td>
<td>Laboratory hood explosion injures Principal Investigator</td>
</tr>
</tbody>
</table>

Wrong hand protection, mercury absorbed into the skin - fatality Fatality, $66,000 in OSHA penalties

Substance obtained through his research, no inventory control OSHA assessed fines $31,875, The University and Principal Investigator were charged with 4 felonies for willful violations of safety standards. Prosecutors reached a deferred prosecution agreement after the PI agreed to pay a donation to a local burn center and do community service. Criminal defense expense exceeded $4.5 million.

Fatality

$1,000,000 fine

Medical costs exceed $650,000

University Liability Claims

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<tr>
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<tr>
<td>Northeast</td>
<td>PhD candidate exposed to laser, no goggles</td>
</tr>
<tr>
<td>Northeast</td>
<td>PhD candidate exposed to toxic lab materials</td>
</tr>
<tr>
<td>West</td>
<td>Methanol cannon experiment</td>
</tr>
<tr>
<td>Northeast</td>
<td>Cut off legs of cadaver, 32 students in dental class over exposed to formaldehyde</td>
</tr>
<tr>
<td>Northeast</td>
<td>Chemistry lab explosion high energy material</td>
</tr>
<tr>
<td>Northeast</td>
<td>Student hair caught in machine lab machine shop</td>
</tr>
<tr>
<td>South</td>
<td>Laboratory Sodium Azide container exploded as student tried to scrape residue off the flask</td>
</tr>
<tr>
<td>South</td>
<td>Laboratory Sodium Azide exploded, student sustained chemical burns</td>
</tr>
<tr>
<td>Midwest</td>
<td>Chemical reaction, beaker explodes under hood</td>
</tr>
<tr>
<td>Midwest</td>
<td>Flammable mixture in non-fire resistant container, static electricity. Explosion injures unpaid grad student</td>
</tr>
</tbody>
</table>

$1,200,000

Settled $1,360,000

2 students severely injured

In suit

Unpaid graduate student injured

Fatality

Facial injuries, no PPE

Same university, same lab as the Oct incident, different student

2 students injured

Loss of arm, suit filed by student and spouse, significant property damage, $115,000 OSHA fine for laboratory violations
University Property Losses

**Northeast**
- Lab fire – storage of materials - incompatible materials
- Lab Explosion consolidating waste chemical
- Lab Explosion explosive element

**West**
- Denatured alcohol experiment flashed

**Northeast**
- Hydrochloric acid spill in lab

**Southwest**
- Lab fire consumes 2 NSF funded labs

**Northwest**
- Arson in plant genetics lab

**Southeast**
- Hurricane caused extended loss of power, emergency generator fuel ran dry

**Midwest**
- Tornado strikes campus, nuclear research facility

**Northeast**
- Principal Investigator asks unpaid undergrad assistant to trim nitrocellulose cylinder on bandsaw in adjacent metals lab.

- Lab destroyed, work not conducted under the hood
- Lab destroyed, work not conducted under the hood
- Building evacuation extensive cleanup
- Lab destroyed, work not conducted under the hood
- Lab destroyed, NIH terminates project
- 14 years of research lost, no recovery plan, NSF terminates project
- ELF claims responsibility (Earth Liberation Front)
- Millions ($$) of environmentally sensitive research was lost.

$20,000,000 estimated loss

Nitrocellulose ignites while being cut erupting lab fire and sprinkler discharge flooding the building floor and water leakage into two basement labs disrupting research projects and destroying additional electronics equipment.

Environmental Affairs

**Northeast**
- 3 research mice infected with Plaque lost
- Mislabeling/storage of laboratory hazardous material

**West**
- Lab hood failure, emission of toxic material
- Mislabeling/storage of laboratory hazardous material

**South**
- USEPA Inspection, RCRA labeling and storage of hazardous waste and other violations
- RCRA citation improper disposal of waste down a drain

**Mid-Atlantic**
- Hydrochloric acid pipe leak, research building

**Northeast**
- Mislabeling of waste, poor storage practices

**Mid-Atlantic**
- Mislabeling of waste, storage, inadequate staff training

**West**
- USEPA cites for waste labeling and storage

**South**
- USEPA cites for waste labeling and storage

- Unable to determine where they went, never found
- $344,000 EPA fines
- $2,000,000 EPA fines
- Multiple local businesses make claims for business interruption and contingent business interruption due to forced closure by municipal authorities
- Settled for $150,000 penalty and $400,000 for 3 community service projects
- $250,000 clean-up of building and sewer piping
- No secondary containment, property contaminated, air quality impaired, $225,000 clean-up expense, PIs barred from entering building to conduct work.
- USEPA Fine $310,000
- USEPA Fine $810,000
- $275,000 fine
- $100,000 fine