

Safety

Welcome to Fall 2017

**Professor Robert Bean
Director, Radiation Laboratories**

**Professor Takashi Hibiki
NE Safety Committee Chair**

Safety is A Value

■ Safety is a value

- It is how we get things done
- We work safely

■ How do we work safely?

- Learn what to do
- Learn where to find information
- Safe practices

Safety – In Case of Tornado

*In case of **Tornado**, report to the south hallway by the Basement Room 141*





The south hall way by the basement door is the location to be if there is a tornado. You can also go into the lobbies of 108, 112 and 132 if the doors are unlocked

Green — Core Space
Black — N/E Total

Safety – In Case of Fire

In case of **Fire**, pull the fire alarm and evacuate building and report to our assembly area – this is the area between Grissom Hall and Heavilon Hall

your location	EAA
NUCL 	




Shelter In Place Procedure

If you are directed to shelter in place, but you are unaware of the specific reason, proceed to the lowest level of the building but continue to seek additional information by all possible means to determine the type of incident. Once you have determined the type of emergency, follow the below chart:

EMERGENCY	EMERGENCY ASSEMBLY AREA (EAA)— SHELTER IN PLACE
Weather-Related—Tornado Warning	Basement corridors, basement offices, basement restrooms Or the lowest level of the building (stay away from windows and doors)
Hazardous Materials (HAZMAT) Release	Remain in or find an unaffected office or work area and close windows and doors.
Civil Disturbance—active shooter	Seek a safe location, preferably a room without windows that can be locked or secured by barriers.

Other Buildings?

- Every building on campus has a Building Emergency Plan (BEP)
- They can be found at https://www.purdue.edu/ehps/emergency_preparedness/emergency/building-plan.html
- Faculty member's job is to make sure you have access
- **Your job is to read it.** 

Why is Laboratory Safety Important?

Prevention of

- injury
- Loss
- lost time
- Lawsuits



- **PIs** and Lab Supervisors are responsible for safety and lab training.
- But, in the end, **YOU** are really responsible for your own safety.

Purdue Safety Requirements



- **Executive Memorandum C-36, the Revised Environmental Health and Safety Compliance Policy**, appoints the Vice President for Physical Facilities as the Environmental Health and Safety Compliance Officer (OSHA Officer) for Purdue University.
- **C-36 requires Purdue staff to comply with all applicable environmental health and safety (EHS) laws, policies, procedures, and instructions.**
- The OSHA Compliance Officer is responsible for and authorized to develop and implement EHS programs and coordinate and monitor compliance.

OSHA: Occupational Safety & Health Administration

Radiological and Environmental Management-REM

- REM serves as a consultant to the University Community in all safety related areas.
- Assists in monitoring regulatory compliance with various federal, state, and university regulations involving environmental, health and safety issues.
- Services include training, consultation, emergency response, and waste removal.
- <https://www.purdue.edu/ehps/rem>

Construction
Health
and Safety

Environmental
Health

Fire and Safety
Equipment
Service

Hazardous
Materials
Management

Industrial
Hygiene

Laser Safety

Radiation
Safety

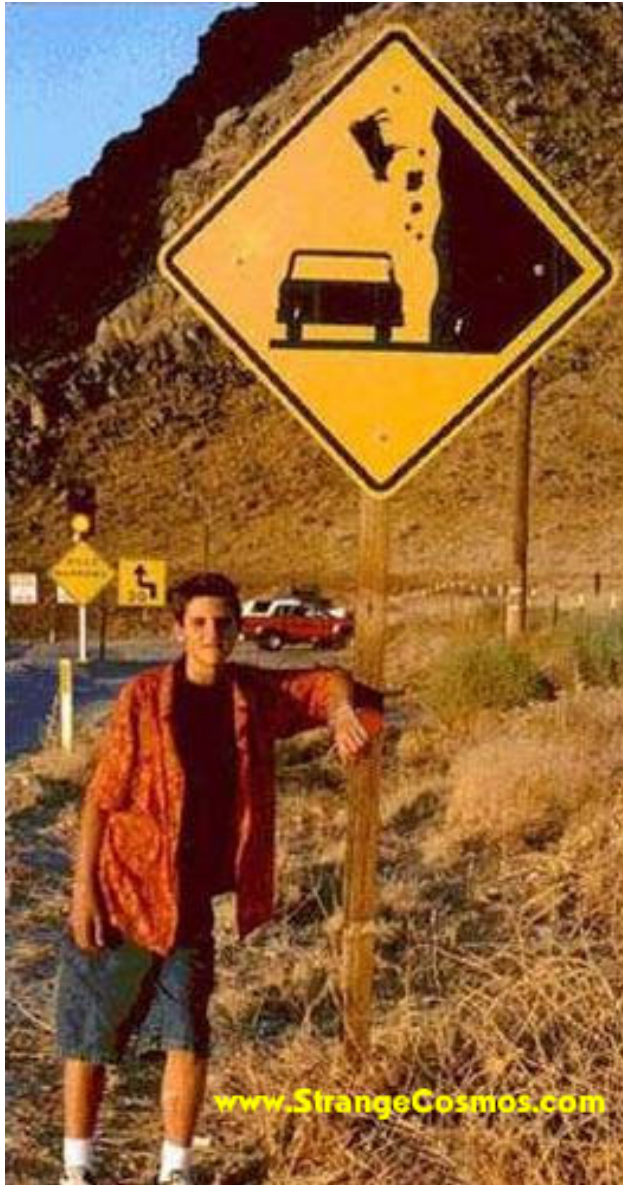
Safety and
Ergonomics

Integrated Safety Plan (ISP)



- The [Integrated Safety Plan](#) (ISP) is REM's strategic plan for safety at Purdue. It provides a structure to communicate environmental, health and safety issues across the organization.
- Working toward increased awareness, the Integrated Safety Plan provides a **mechanism** for safety committees, self-audits, and departmental indemnification from regulatory **fines**.

HazCom



- The Hazard Communication Standard (**HCS**) is an Occupational Safety and Health Administration (**OSHA**) regulation.
- HCS may also be referred to as the **Right-to-Know Law** or RTK. The citation number is 29CFR1910.1200.
- HazCom, as it may also be called, is a **standard** intended to **protect employees** from physical and health hazards that they work with or be exposed to.

Radiation Safety



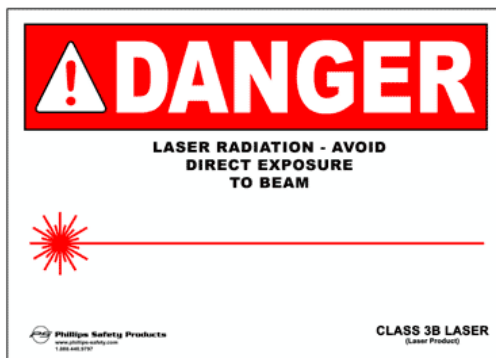
- The Radiation Safety Section is responsible for complying with regulations set forth by the **Nuclear Regulatory Commission** as well as the Indiana State Department of Health for the safe use of radioactive materials on campus.
- REM accomplishes this by providing several types of training, radioactive waste pickups, calibration services, personnel dosimetry to monitor radiation exposure, as well as consulting support for all of your safety concerns.
- RSO: Dr. Jim Schweitzer, 49-42350, jfschwei@purdue.edu
- Radiation Safety Manual
<https://www.purdue.edu/ehps/rem/home/booklets/radman.pdf>



Laser Safety



- Based on the President's Executive Memorandum No. D-2 and the Purdue University Laser Safety Guidelines, individuals are officially authorized to use **Class 3B and Class 4** lasers on their respective projects upon receiving appropriate **laser safety training**, demonstrating competency, and submitting complete application forms bearing the authorization name and signature of the Laser Principal Investigator (LPI).



- Laser Safety Officer: Matthew Tang, mmtang@purdue.edu 49-42721
- <https://www.purdue.edu/ehps/rem/home/booklets/laserguide.pdf>

Biological Safety



- It is the policy of Purdue University to take every reasonable precaution to provide a work environment that is free from recognized hazards for its employees in accordance with the General Duty Clause of the Indiana Occupational Safety and Health Law (IC 22-8-1.1 Section 2).
- Laboratory supervisors and principal investigators are responsible for biological safety in the laboratory.
- BioSafety Officer: Bob Golden, 49-41496, rgolden@purdue.edu
- <https://www.purdue.edu/ehps/rem/home/books/bioman.pdf>

Chemical Hygiene Plan



- This **manual** gives Federal, State, and University requirements and expectations relating to the OSHA Laboratory Standard, 29 CFR 1910.1450. This standard applies to areas of laboratory use and of **hazardous chemicals**. (2014)
- <https://www.purdue.edu/ehps/rem/home/booklets/chp2014.pdf>

Other Hazards



- Use appropriate **Personal Protective Equipment (PPEs)**
- Use **Lockout/Tagout** Procedures when entering a dangerous area

Proper Storage of Hazardous Materials



- Make sure all materials are stored properly.
- Make sure all containers are properly sealed and labeled.
- Make sure all waste containers are properly sealed and labeled.



Hazardous Materials Management



- Purdue manages hazardous waste under a permit granted to Purdue by the Indiana Department of Environmental Management and the United States Environmental Protection Agency. It is the responsibility of each hazardous waste generator to manage their waste according to Executive Memorandum No. C-36 and Guidelines: Handling and Disposal of Chemicals. To have waste removed from individual campus locations; a Hazardous Materials Pickup Request Form must first be submitted.

- <https://www.purdue.edu/ehps/rem/home/booklets/hwdg.pdf>
- Contact: Eric Johnson, 49-69359; johns371@.purdue.edu
- **ALL CONTAINERS MUST BE KEPT CLOSED AND CLEARLY LABELED.**



Workplace Injuries

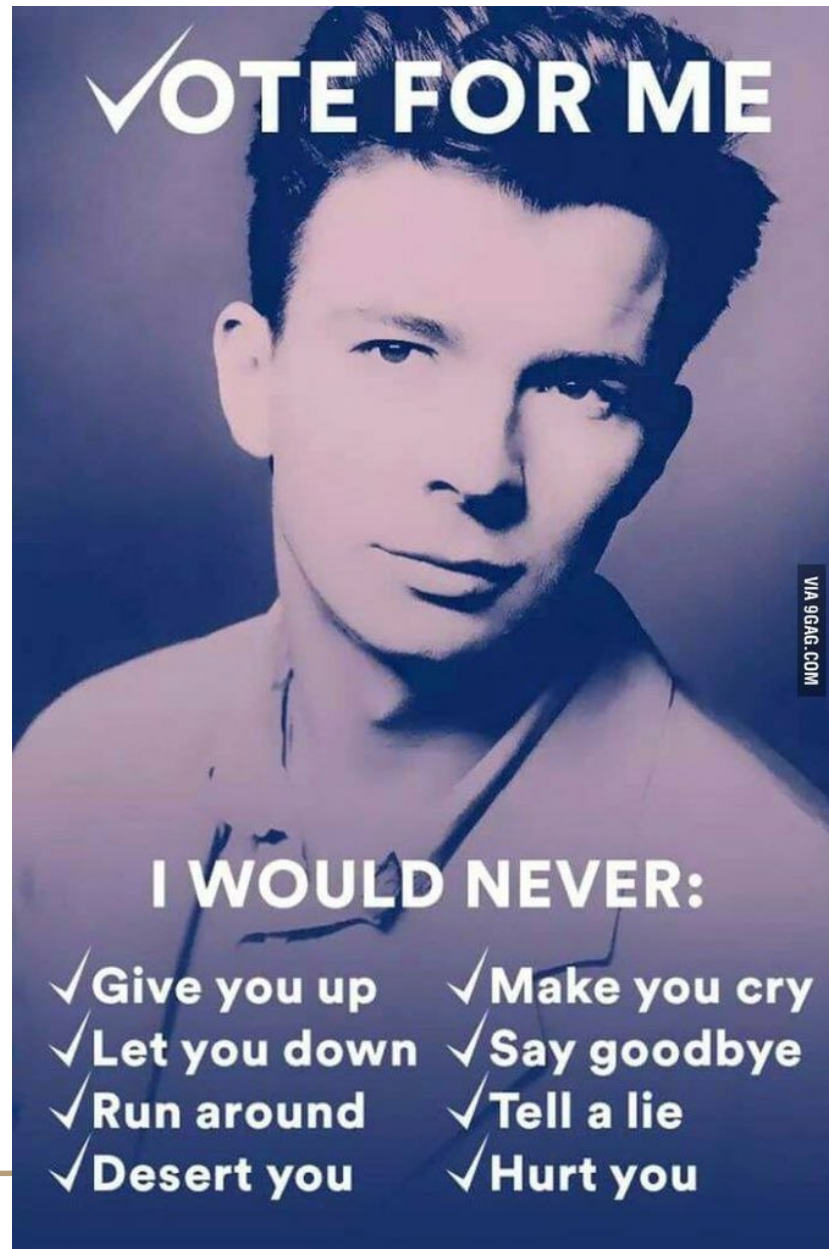
- All injuries **must** be reported, no matter how minor.
- Supervisor must complete the *First report of injury form* and submit to REM within 48 hours:

<https://www.purdue.edu/ehps/rem/home/forms/froi.pdf>

Cell Phones

- In Case of an Emergency
 - Add I.C.E. to the phone book contact you would want called in case of emergency
 - Put it on the lock screen of your phone
- 911 from a cell phone may connect to the county system and they will immediately forward you to the Purdue dispatch.
- Add **765-494-8221** as a Purdue police non-emergency contact number

Do your part and we'll do ours



✓OTE FOR ME

VIA 9GAG.COM

I WOULD NEVER:

✓ Give you up	✓ Make you cry
✓ Let you down	✓ Say goodbye
✓ Run around	✓ Tell a lie
✓ Desert you	✓ Hurt you