Purdue University
Lyles School of Civil Engineering
Safety
Environmental Health and Safety Compliance (I.2.4) issued May 1, 2011

- Faculty, staff, students are required to comply with environmental, health, safety and preparedness laws and regulations issued by federal, state and local agencies
  - Occupational Safety and Health Administration
  - Nuclear Regulatory Commission
  - Environmental Protection Agency
  - Department of Homeland Security
  - Department of Transportation
  - Indiana Department of Environmental Management
  - Indiana State Department of Health
- Faculty, staff and students also must comply with related university policies, procedures and instructions.
To be informed about known health and safety hazards in your area
To be trained to use proper safety procedures
To inform your supervisor or safety representative about accidents or hazardous situations in your work area without fear of repercussions
Responsibilities

- Use the available information and to stay informed about health and safety hazards in your area
- Attend the training provided
- Use proper safety procedures
Safety Training

- Safety training varies for each lab
  - Environmental, Geotechnical, Materials, Hydraulics
  - Structures: Bowen has its own safety program
  - Transportation: Anyone funded by Joint Transportation Research Program (JTRP) must complete the JTRP safety training
- Each lab has its own hazards and safety protocol
- You must complete safety training and sign an HCP-8 for every lab in which you work
Emergency

- Campus wide emergency
  - http://www.purdue.edu
- Weather emergency
  - http://news.uns.purdue.edu/weather.html
- Local news
- Radio: WBAA 920 AM, 101.3 FM
Emergency – Alertus System

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Additional Resources:

1. Building Emergency Plan...located on EP Website:
   http://www.purdue.edu/epu/er preparedness/eppreparedness/buildingplan/
2. Emergency Procedures Guide:
   http://www.purdue.edu/epu/er preparedness/training/epprecedures
3. All Hazards Awareness Training is available in a classroom setting, online department. See http://www.purdue.edu/epu/er preparedness/training/epprecedures

Tips:

If the beacon fails to work or is vandalized, please report the issue to 402-465-6100 or email ehps@purdue.edu.

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Emergency Alert Beacon
Alertus Tech
Emergency Door Locks

TO LOCK THE DOOR

TURN LOCK TO THE DOWN POSITION
Campus Emergency Phones
On Campus Emergency

- Cell phones
  - Sign up for emergency text message for your cell phone
  - [http://www.purdue.edu/securepurdue](http://www.purdue.edu/securepurdue)
Emergency Evacuation

- In case of fire or other emergency situations you need to know how to safely exit the building.

- If you are a professor or teaching assistant, it is your responsibility to ensure that your students are safely evacuated.

- Emergency procedure for chemical spill or localized safety issue:
  - Leave the area, contact your supervisor, call 911.
Emergency Evacuation

- Call 911
- Leave the building
  - First stop experiments, as warranted (heat, water, cooling, or potentially dangerous if not attended)
- Leave the office doors open
- Exit using the stairs (not the elevator!)
- Go to the emergency assembly area (EAA)
  - Between Pharmacy and HAMP (or atrium of Armstrong in inclement weather)
Emergency Assembly Areas

Area in Front of Pharmacy: Emergency Assembly Area (in case of fire, etc.)

Atrium of Armstrong: Emergency Assembly Area in inclement weather

Basement of Civil: Shelter in Place Area (in case of tornado, civil disturbance, etc.)
Weather Emergency

- Tornado
  - There are 9 tornado sirens on campus
  - If you hear the siren, go to a designated safe location
    - The basement of HAMP Engineering is a designated safe location
Tornado – Shelter in Place

Evacuation plans for all rooms are available on-line
General Lab Protocol

- Be aware of lab hazards, do not use equipment or chemicals unless you have been trained
  - Equipment training
  - Chemical training
  - Refer to hazard assessment for specific PPE
- Wear appropriate clothing
  - Long pants, shoes, hair tied back, etc.
- Wear appropriate personal protection equipment (PPE) for the task you are doing
  - Goggles, gloves, hearing protection, respiratory protection, etc.
- No eating or drinking in labs
Potential Hazards

- Biohazards, biowastes
- Equipment and lasers
  - Do not use without training and authorization of safety contact in lab (DTI)
- Chemicals (consider transport, too)
  - Understand and refer to SDS for all chemicals you use
  - REM will collect chemical waste
- Electricity
- Heat
Safety: Be Proactive

- Keep your lab organized and put things away
- Locate emergency safety equipment before you need it
  - Fire extinguishers, eyewash stations, safety showers
  - SDS records, safety procedures
- Notify safety contact (DTI) of any incident
  - Reporting your “near miss” may protect you in the future and may save someone else from an accident or injury
- Discuss any safety concerns you have
  - Talk to your DTI, your professor, REM or a member of the safety committee if you have concerns
Personal Protection Equipment

- Safety goggles
- Lab coat
- Face mask
- Gloves
- Long pants
- Shoes
- Safety harness

- Hearing protection
- Hard hat
- Safety vest
- OSHA certified ladder
- Respirator
- Fume hood

Important: Take contaminated gloves off before exiting the lab!
Safety First

- Potential obstacles to safety
  - Time pressure
  - Lack of knowledge
  - Carelessness and fatigue

- To increase safety
  - Develop and follow protocols
  - Make safety a consideration in all plans and procedures
  - Don’t be afraid to voice concerns regarding safety
For any kind of emergency
Call 911 from any university phone
  24 hours a day, 7 days a week
Emergency and Injury

- Call 911 for medical emergency
  - Defibrillator on the first floor by room 1149
- For workplace injury
  - Fill out REM form as soon as possible
    http://www.purdue.edu/rem/injury/froi.htm
Civil Engineering Designated Trained Individuals (DTIs) for Safety

- Ali Hekmatfar
- Anahita Modiriasari
- Cameron Wilson
- Eshan Ganju
- Jie Shan
- Steve Lavrenz
- Michelle Mekker
- Mohammadhasan Sasar
- Raikhan Tokpatayeva
- Bill Schmidt
- Shahedur Rahman
- Nadya Zyaykina
Civil Engineering
HazCom/Right to Know Summary

- HazCom/Right to Know, you have a right:
  - To know the hazards that you work
  - To receive appropriate training
  - To voice your concerns without negative repercussions

- A chemical inventory exists for each lab and shared work areas and is maintained by the DTI (designated trained individual) for that area

- All chemicals must have an SDS which provides information about the safe use of the chemical

- Emergency procedure for chemical spill or safety issue
  - Leave the area, contact your supervisor, call 911
Safety Resources

- REM is Purdue’s safety consultant
  - [http://www.purdue.edu/ehps/rem/](http://www.purdue.edu/ehps/rem/)

Civil Engineering

- Safety website
  - [http://purdue.edu/CE/Safety](http://purdue.edu/CE/Safety)

- Online training
  - [https://engineering.purdue.edu/Intranet/Groups/Schools/CE/Safety/RTK](https://engineering.purdue.edu/Intranet/Groups/Schools/CE/Safety/RTK)

- Safety committee
  - [http://purdue.edu/CE/People/Administration/Committee/SafetyComm.html](http://purdue.edu/CE/People/Administration/Committee/SafetyComm.html)
Safety Tips

- **Tip 1**: Do not walk and text. Look out for others who are walking, people on bicycles and vehicles.

- **Tip 2**: Be careful walking at night. Make use of the Safe Walk Program. Call 494-8221, PUPD Dispatcher, and they will send an officer or a member of the Safe Walk Program to escort you anywhere on campus.

- **Tip 3**: Be aware of a suspicious package. Do not try to remove a backpack, package, box, etc. that has been left for an extended period of time. Warn others, leave the area and contact the PUPD.