CGN3508L

Civil Engineering Material Laboratory Safety Guidelines

1 General Safety

- Only enter the laboratory when authorized
 - Always sign-in and sign-out
- A supervisor must be present at all times
- Never work alone in the laboratory
- You have the primary responsibility for your safety
 - Don't do anything you feel is unsafe
 - Don't do anything you are not confident about
 - Be prepared for the test/experiment you will run

2 Personal Safety

- Medical conditions must be reported immediately
 - No matter how small they are
- No personal belongings in work area
- Be careful for your own safety
- Be as careful for the safety of others as for yourself
- Wash your hands before leaving the laboratories

3 Clothing

- Long sleeve (tight) shirts and pants
- Shoes must completely cover your feet
 - No sandals or opened-toed shoes
 - Preferably steel-toed shoes
 - * If experiment requires heavy lifting
 - * Dropping a 15 pound weight from 3 feet
- Long hair must be tied back at all times
- Remove bracelets, necklaces or other loose jewelry

4 Personal Protection

- Eye safety glasses are required during preparation and testing
 - Never wear contacts when working with volatile materials
- Use appropriate filter masks if:
 - handling fine particles
 - working in dusty environments
- Hard hats must be worn if:
 - lifting heavy objects with crane
 - there is danger of falling objects

5 Equipment Safety

- Never use a tool you are not familiar with
- Do not operate heavy equipment (cranes, forklifts, etc.)
 - Do not operate equipment you are not trained for
- All guards must be in place before equipment operation
 - Do not bypass guards or safeties
- Report faulty equipment to supervisor

- Do not use equipment that has been marked faulty
- De-energize machinery or equipment before cleaning or adjusting

6 Laboratory Regulations

- Follow the assigned instructions and procedures exactly
- No food or liquids are allowed inside the laboratory
- Do not taste or ingest anything while in the laboratory
- Smoking is prohibited
- Keep work area well lit and dry (as much as possible)
- Always keep your work area and the entire laboratory clean

Before running your experiment:

- locate all fire extinguishers in the laboratory
- access the first aid kits and check for completion
- test the eyewash stations
- find out where the fire alarm is located
- check emergency and exit routes
- locate the nearest phone

7 Use of Emergency Equipment

Fire Extinguisher

Use the **P** A S S Technique

- Pull the pin at top of the extinguisher
- Aim at the base of the fire, not the flames
- Squeeze the lever slowly
- Sweep from side to side

http://www.fire-extinguisher101.com/using.html http://www.fireextinguishertraining.com

8 Chemical Hazards

- Know the properties and dangers of the chemicals you are handling
- No open flames are allowed when chemicals are present
- Never smell or taste chemicals

9 Disposal

- Do not wash any material down the drain
- Do not dispose any chemicals without specific directions by the instructor
- Chemical waste must be disposed in appropriate and designated receptacles

10 Laboratory Accidents

- Be prepared to act intelligently and quickly
- Always notify the instructor in the event of an accident, no matter how minor it appears
- If corrosive liquids (acidic or basic) touch your skin, flood the area with water immediately
 - Rinse at least 15 minutes
 - Notify the instructor after finishing
- In the event of eye contact with any substances in the laboratory, use the eyewash stations to rinse immediately
 - Notify the instructor after finishing

In case of emergency, contact one of the following:

• Raphael Kampmann (Instructor)	Tel: 410-6127
• Jack Johnson (Laboratory Manager)	Tel: 410-6106
• Kamal Tawfiq (Department Chair)	Tel: 410-6143
• Main Office	Tel: 410-6139

CGN3508LCivil Engineering Material Laboratory Safety Compliance Form

I,	_ acknowledge that I have received the Civil Engineering
Material Laboratory Safety G- guidelines for CGN3508L. Furt while using the Civil Engineering rials. In the event that I do not subject to disciplinary action a	uidelines. By signing below I agree to adhere the official thermore, I will take full responsibility for all of my actions and Laboratories and while handling any construction mate-ot follow the stated guidelines I understand that I may be at the discretion of the laboratory course instructor. Such a limited to, removal of laboratory privileges and a failure
Last Name (Print):	
First Name (Print):	
Signature:	
G v	ll attempts will be made to contact the person listed below
Relationship:	
(original to student file, conv. re	eturned to student)

(original to student file; copy returned to student)