



Research and Radiation Safety Newsletter

Cornell University Environmental Health & Safety

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IMPORTANT INFORMATION FOR ALL INDIVIDUALS WHO SHIP HAZARDOUS MATERIALS

Submitted by Marlene Larson (mat2)

<http://www.ehs.cornell.edu/lab/dot/>

Special points of interest:



- Training is required for hazardous materials shipping.
- All persons filling out shipping forms must be trained.
- Keep training records organized and available.
- For more information visit: <http://www.ehs.cornell.edu/lab/dot/>

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The FAA inspected the Ithaca campus of Cornell during May 2007. We expect these inspections to re-occur every 2 years, so it is possible that in May of 2009 we will be visited once again. During the inspection 4 areas for improvement were noted.

1. **TRAINING:** An Administrative Assistant transcribed hand written information provided by a certified shipper. The certified shipper then reviewed the paperwork, signed it and offered the package for shipment. **Finding: FAA criteria requires that anyone who performs any function related to the transportation of dangerous goods, even transcription, must be trained and certified.** General Awareness course is offered on Blackboard for those who transcribe these documents - once you have taken and passed the test you are certified to be able to perform this function.

2. **TRAINING:** A researcher, who was not trained and certified, signed the paperwork

for a shipment of dangerous goods because he felt responsible for the material. A trained and certified individual had properly packaged the material and prepared all the paperwork. **Finding: The individual signing the form is responsible for the shipment and that individual must be properly trained and certified by Cornell.**

While only a certified shipper can sign the bottom of a dangerous goods form, the name of the researcher, supervisor or other individual may be listed in the address portion of the documentation.



3. **RECORDS ISSUE:** A laboratory could not locate the copy of the shipping paper for one of their dangerous goods shipments. (The paperwork was located the next day and was provided to the FAA.) **Finding: Shippers are re-**

quired to maintain copies of dangerous goods shipping papers for 2 years and have them readily available. Be sure to have all your shipment records organized and available!

4. **IMPROPER DOCUMENTATION AND RECORDS:** One shipper used incorrect shipping names, packing groups, and packing instructions. Copies of shipping records were not maintained. **Finding: Despite the fact that the individual was properly trained and certified by Cornell, there was a pattern of improper actions by this individual.** Corrective measures were initiated during the inspection visit and permanent changes have been made with the unit involved.

Please remember that FAA regulations contain serious penalties for both organizations and individuals who improperly ship hazardous materials. Improper shipping can also lead to accidents and injuries. We at EH&S are committed to helping you assure compliance to these important regulations. For assistance, questions, or information please visit our web page listed above.

Free!

DOT Hazardous Materials Shippers Training at 140 East Hill Office Building

April 1st 9AM—11AM
DOT Hazardous Materials Shipping Class 9- Batteries, Genetically Modified Organisms, Dry Ice

April 2nd 9AM—5 PM
DOT Hazardous Materials Shipping of Chemicals

April 3rd 9AM—5 PM
DOT Hazardous Materials Shipping of Infectious Substances Class 6.2B

Pre-Register through Safety Base: <http://dataworks.fcs.cornell.edu/sb/>
East Hill Shuttle Information: http://www.parking.cornell.edu/pdf/EHP_Shuttle-2008.pdf

Republished by Request

Visitors in Laboratories

Submitted by Jeff Leavey (jal247)



University officials were recently asked by representatives of the NY State Department of Health (DOH) if faculty and staff are permitted to bring children into Cornell laboratories. The DOH raised this issue during the exit conference that concluded a campus wide inspection of Cornell's compliance with regulations governing the use of radioactive material. The inspectors encountered a parent and child in a laboratory during their visit and were quite concerned about the health and safety risks to a minor.

University officials reassured the inspectors that Cornell is very concerned

about the welfare of all visitors, especially children, and that Cornell policy generally prohibits bringing children into hazardous areas. The presence of children is of special concern because children are more vulnerable, may be unaware of hazards, are curious and easily distracted, and easily distract others. Children are permitted on campus and in specific labs and work areas for University sanctioned programs and

events such as outreach programs, bring your child to work day, or guided tours. Children need to be supervised at all times when visiting labs and research areas. For these and other reasons, all faculty, staff and students are expected to support this commitment and prevent children from otherwise entering laboratories and other hazardous locations.

Adult visitors are also at higher risk because they may lack the training and experience of regular workers and are less familiar with the hazards and precautions of the workplace. Appropriate procedures and limitations should be established and followed for all guests and visitors.

Appropriate procedures should be established and followed for all guests and visitors.



Please help ensure the safety of your children by keeping them away from potentially hazardous worksites such as laboratories



Radiation Safety Eagle Awards



Submitted by Lorna Hubble

EH&S is pleased to recognize the following laboratories for receiving radiation safety awards:

October '07

- W. Fry—Plant Pathology
- *R. Harrison—Ecology & Evolutionary Biology
- N. Place—Pop Medicine & Diagnostic Sciences
- J. Scott—Entomology

November '07

- J. Baines—Microbiology & Immunology
- M. Bynoe—Microbiology & Immunology
- T. Fox—Molecular Biology & Genetics
- M. Hanson—Molecular Biology & Genetics
- George Hess—Molecular Biology & Genetics
- *J. Lis—Molecular Biology & Genetics
- H. Marquis—Microbiology & Immunology

December '07

- G. Acland—Baker Institute
- *E. Alani—Molecular Biology & Genetics
- R. Dieckmann—Materials Science & Engineering
- M. Goldberg—Molecular Biology & Genetics
- J. Fortune—Biomedical Sciences
- M. Kotlikoff—Biomedical Sciences

- Ronald Minor—Biomedical Sciences
- A. Nikitin—Biomedical Sciences
- H. Nivison—Molecular Biology & Genetics
- A. Quaroni—Biomedical Sciences
- M. Roberson—Biomedical Sciences
- J. Schimenti—Biomedical Sciences
- D. Shalloway—Molecular Biology & Genetics
- T. Tumber—Molecular Biology & Genetics
- M. Villa-Garcia—Molecular Biology & Genetics

January '08

- G. Blissard—Microbiology & Immunology
- R. Cerione—Molecular Medicine
- *D. Klessig—Boyce Thompson Institute
- G. Martin—Plant Pathology
- S. Menne—Clinical Sciences
- A. Nixon—Clinical Sciences
- G. Sharp—Molecular Medicine
- D. Stern—Plant Biology
- H. Wang—Boyce Thompson Institute

* Winner of Meal Deal from Pizza Hut

Super Eagle!

Thomas Brutnell—Boyce Thompson Institute



EH&S Training Programs East Hill Shuttle Information: <http://www.parking.cornell.edu/pdf/>

Pre-Register for Trainings through Safety Base: <http://dataworks.fcs.cornell.edu/sb/>

Take online on Blackboard: <http://blackboard.cornell.edu>



LABORATORY SAFETY
REQUIRED FOR ALL LABORATORY PERSONNEL

- Friday, February 22 - 12:30 pm **218 Olin Hall**
- Wednesday, March 05 - 9:00 am **140 East Hill Office Building**
- Wednesday, April 09 - 9:00 am **140 East Hill Office Building**
- Wednesday, May 07 - 9:00 am **140 East Hill Office Building**

Chemical Waste Disposal
REQUIRED FOR ALL LABORATORY PERSONNEL

- Wed, March 5 - 11:15 am **140 East Hill Office Building**
- Wed, April 09 - 11:15 am **140 East Hill Office Building**
- Wed, May 07 - 11:15 am **140 East Hill Office Building**

LASER SAFETY: Pre-registration is required

The purpose of this training is to help protect students and employees from the potential hazards associated with laser devices and systems used to conduct laboratory educational or research activities.

- Thursday, February 28 - 1:00 pm—2:30pm
- Wednesday, March 26 - 9:00 am—10:30 am
- Tuesday, April 15 - 9:00 am—10:30 am
- Thursday, May 22 - 9:00 am—10:30 am

All classes at 140 East Hill Office Building

BLOODBORNE PATHOGEN

Mon, March 10 9:00 am

BLOODBORNE PATHOGEN REFRESHER

Fri, March 21 11:00 am

RADIATION SAFETY TRAINING

REQUIRED: Class 1 AND Class 2

- | | |
|-------------------------------|------------------------------------|
| Monday, February 18 - 9:00 am | • Wednesday, February 20 - 9:00 am |
| Tuesday, March 18 - 1:00 pm | • Thursday, March 20 - 1:00 pm |
| Monday, April 14 - 9:00 am | • Wednesday, April 16 - 9:00 am |
| Tuesday, May 13 - 9:00 am | • Thursday, May 15 - 9:00 am |

All classes at 140 East Hill Office Building

FORMALDEHYDE AWARENESS

Pre-Registration is not required

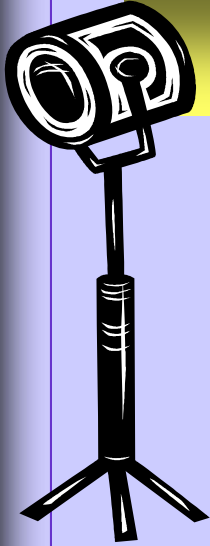
- | | |
|-------------------------------------|-----------------------------------|
| Wed, March 12 - 10:00 am – 11:00 am | Wed, March 12 – 2:00 pm – 3:00 pm |
| Hagen Room Schurman Hall, Vet Col | S1-007 Schurman Hall, Vet Col. |

HAZARD COMMUNICATION STANDARD

Thursday, April 10 - 9:30 am
140 East Hill Office Building



TO ENCOURAGE AND PROMOTE OUR VALUE OF SUSTAINABILITY
PLEASE SHARE THIS NEWSLETTER ELECTRONICALLY.

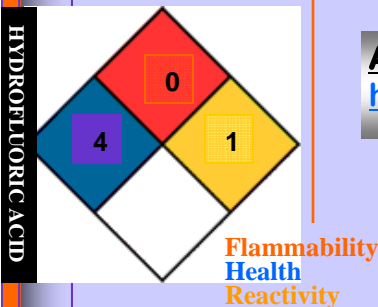
FEATURED CHEMICAL:**"HYDROFLUORIC ACID" CAS# 7664-39-3****REQUIREMENTS FOR LABS USING HF**

- Prior approval
- Standard Operating Procedure (SOP)
- Designate "HF" Fume Hood work area
- Signs for Usage area and First Aid Kit
- Personal Protective Equipment (PPE)
- Training
- Know additional work practice guidelines
- Store AWAY from Nitric Acid, Ammonia, Organic Peroxides

HAZARDS is absorbed through the skin
is a severe toxin
binds calcium in the body

PPE

Rubber or Plastic Apron
Gloves
-Heavy nitrile double gloved
-Neoprene or butyl over nitrile
-Silver shield
Splash Goggles & closed sash
Closed toed shoes
Long Pants and long sleeved shirt

Store in polyethylene or Teflon—NOT IN GLASS


All information can be found on the EHS "HF" website at:
http://www.ehs.cornell.edu/chem_lab_safety/hfacid_safe.cfm

EMERGENCY RESPONSE:

- *In case of a spill, secure the area and call 911
- *If exposed immediate emergency response is to call 911, flush with water and apply 2.5% calcium gluconate gel

Submitted by
Brenda Coolbaugh (blc32)

New Rules for Air Travel with Rechargeable Batteries

Passengers will no longer be able to pack spare lithium batteries in checked luggage effective January 1, 2008. This new regulation is designed to reduce the risk of lithium battery fires aboard airplanes. Many devices that we use everyday contain rechargeable batteries that are lithium ion or lithium metal. Some examples of these devices are digital cameras, cell phones, notebook computers, cordless drills and remote control devices.

Carry on luggage is the preferred location for devices and spare batteries of lithium content.

If your batteries are below 8 grams then there is no limit to the number you can carry on, but you must package them to prevent short circuiting. If your batteries contain more than 8 grams lithium, then you are only allowed two spare batteries and one installed with a total limit of 25 grams lithium. All spare batteries must be protected from short circuiting in their original packaging, individual plastic bags or a protective travel case.

Spare lithium batteries are not allowed in checked luggage. All lithium batteries that are in checked luggage

must be installed in the device. The devices must be packaged such that the devices remain switched off, either by built in trigger/switch locks, by taping the switch off or contained in a sturdy carrying case. The limits for checked luggage are 2 grams lithium metal or 25 grams lithium ion batteries installed in devices.

Submitted by Bill Leonard (wl68)

For further information on what is safe to fly with visit:
www.SafeTravel.dot.gov

If you ship your spare batteries ahead you must receive DOT training and ship them as DOT class 9. Most lithium ion cell phone and notebook computer batteries are below 8 grams (~100 watt hours) of lithium content. Most extended life lithium batteries and professional audio / visual equipment batteries are more than 8, but likely less than 25 grams lithium content.



Any ideas for future newsletter topics or to subscribe to the newsletter mailing list please email blc32@cornell.edu

THANKS!