

# University of Illinois Materials Research Lab (MRL)

January 2019



## Important Dates and Reminders

### IMPORTANT DATES:

#### Nano Safety Workshop

- February 28, 2019
- FREE Registration: [go.illinois.edu/NanoSafety](http://go.illinois.edu/NanoSafety)
- Coffee and Cookie Break

### DAILY REMINDERS

- Use buddy system when working in labs
- Do not leave labs unlocked
- Be aware of your surroundings
- Remove lab PPE before leaving lab spaces. PPE is not allowed in public areas

# Safety Newsletter

This month's topics are new DRS online trainings and review of sharps and glass disposal.

## New DRS Safety Trainings

### Fire Extinguisher Training

- Description: This online training provides information on using fire extinguishers on the Champaign-Urbana campus. It covers types of extinguishes, classes of fires, when to attempt to fight a fire, and the proper way to fight a fire.
- Takes approximately 15 minutes and valid for 1 year.

### Risk Assessment for Research Procedures

- Description: This training is designed to introduce researchers to the concept of risk assessment. Risk assessment is the foundation to good standard operating procedure (SOP) and important for working safely in a research setting.
- Takes approximately 30 min and valid indefinitely.

## Basic Laboratory Review

### Sharp Disposal Containers

Below is a chart that list out the **proper** and **improper** use of a sharps disposal container:

<b><u>ALWAYS</u> dispose in the SDC</b>	<b><u>NEVER</u> dispose in the SDC</b>
Any medical needles	Plastic items (except for syringes)
Syringe barrels (with or without needles)	Beverage containers (no pop cans!)
Pasteur pipettes (glass pipettes)	Non-biologically contaminated laboratory glassware
Scalpel and razor blades	Solvent/Chemical bottles
Blood vials	Light bulbs
Microscope slides and coverslips	Any paper materials
Glassware contaminated with infectious agents	Silicon wafers
	Plastic pipettes and pipette tips
	Aerosol cans or can of any type
	Scintillation vials
	Any item with liquid (except for blood in vacutainers)

All sharps should be disposed of in a sharps disposal container (SDC). These are provided free of charge to university personnel. The SDC's come in three different sizes, 1-quart, 2-gallon, or 8-gallon. To make a request for new SDC's, please contact the campus stores at 217-244-0139 or by email, [cstores@illinois.edu](mailto:cstores@illinois.edu). When putting in your request please include the quantity and size of SDC's and where they need to be delivered.

## Useful Contacts

MRL Safety Committee  
[safety@mrl.illinois.edu](mailto:safety@mrl.illinois.edu)

MRL Safety Engineer  
 Maisie Kingren  
[mlswans2@illinois.edu](mailto:mlswans2@illinois.edu)  
 217-244-8637

Division of Research Safety  
[drs@illinois.edu](mailto:drs@illinois.edu)  
 217-333-2755  
[www.drs.illinois.edu](http://www.drs.illinois.edu)

Safety and Compliance  
[fsserviceoffice@illinois.edu](mailto:fsserviceoffice@illinois.edu)  
 217-333-0340  
[www.fs.illinois.edu/services/safety-and-compliance](http://www.fs.illinois.edu/services/safety-and-compliance)

## Glass Disposal

The laboratory glassware disposal boxes are for glassware (intact or broken) that is NOT contaminated with biological, chemical, or radioactive materials. The glassware isn't a sharp, is free of all liquids/solids, has no emanating odor, and is packaged properly.

Acceptable to dispose in glass disposal box when <u>NOT</u> contaminated	<u>NEVER</u> dispose in glass disposal box
Glass flasks/beakers/bottles NOT contaminated	Biologically, chemically, or radiologically contaminated
Small glass containers/ ampoules, test tubes, vials NOT contaminated	Microscope slides and cover slips
Thin-layer chromatography	Syringes
Watch glasses	Liquids
	Pasteur Pipettes (glass)
	Thermometers

Here is a quick rundown from the DRS webpage for what to do with contaminated laboratory glassware:

- Biologically contaminated glassware is disposed of in the Sharps Disposal Containers (SDC), as we have previously discussed.
- Chemically contaminated glassware should be discarded through the [DRS waste disposal program](#).
- Radiologically contaminated glassware is discarded through DRS by placing the contaminated glassware in a sturdy cardboard box lined with a plastic bag, securely seal the box with tape, label the box "Broken Glass" and put a radioactive symbol sticker on the box. Once you have completed those steps you must complete a [radioactive waste pick up request](#).
  - The u of I radiation Safety Section email is [rss@illinois.edu](mailto:rss@illinois.edu) if you have any further questions for radiologically contaminated items.

## Nano Safety Workshop 2019



**1:15 Maisie Kingren, MRL Safety Engineer & a DRS Safety Professional**  
 How we currently handle Nano Safety on Campus

**1:30 Laura Hodson, CIH, FAIHA, Coordinator of NIOSH's Nanotechnology Research Center**  
 Risk Management and Best Practices for Handling Engineered Nanomaterials

**2:15 Prof. Cathy Murphy, Chemistry, MRL Associate Director**  
 Nanoparticles and the Environment: The Good, the bad, and the Ugly

**3:00 Cookies and Coffee Break**

**3:30 David Wasescha, Labconco Product Manager**  
 Nano Containment

**4:00 Dr. Edward Chainani, Safety Engineer, College of Engineering**  
 Control Banding Nanotool

**4:30 Closing Remarks**

**Nano Safety Workshop**  
**February 28, 2019**  
**1:15 - 4:50**  
**190 ESB**

Register:  
[go.illinois.edu/NanoSafety](http://go.illinois.edu/NanoSafety)

ILLINOIS  
 Materials Research Laboratory  
 COLLEGE OF ENGINEERING