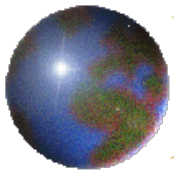


# Hazardous Chemicals in Montana Schools

Dusti Johnson

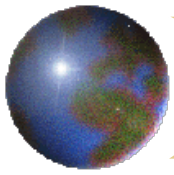
Waste Management & Remediation Division



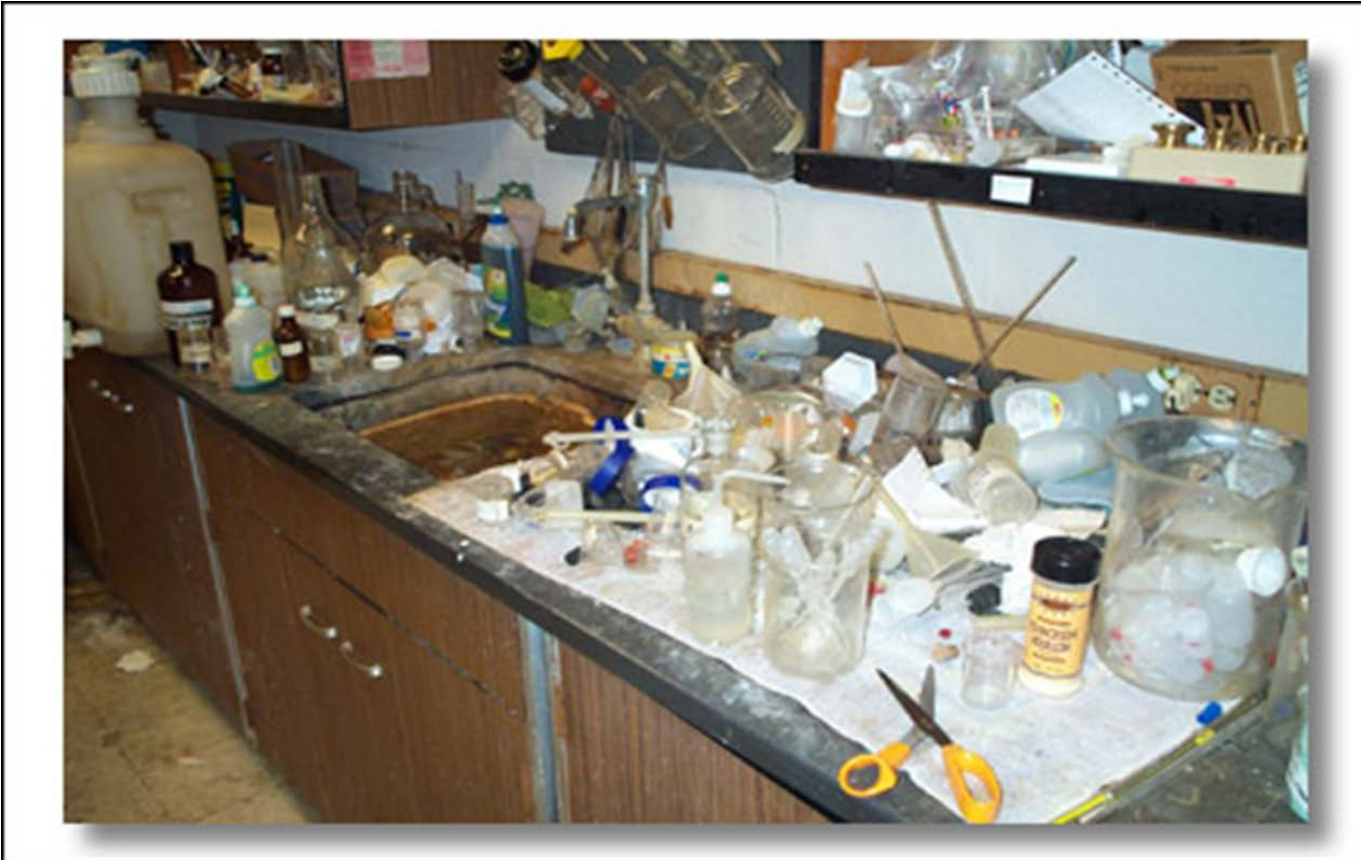


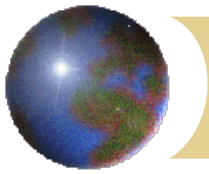
# Picture The Problem – Storage and...





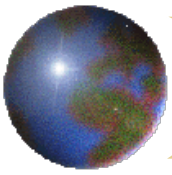
# Picture The Problem - Housekeeping



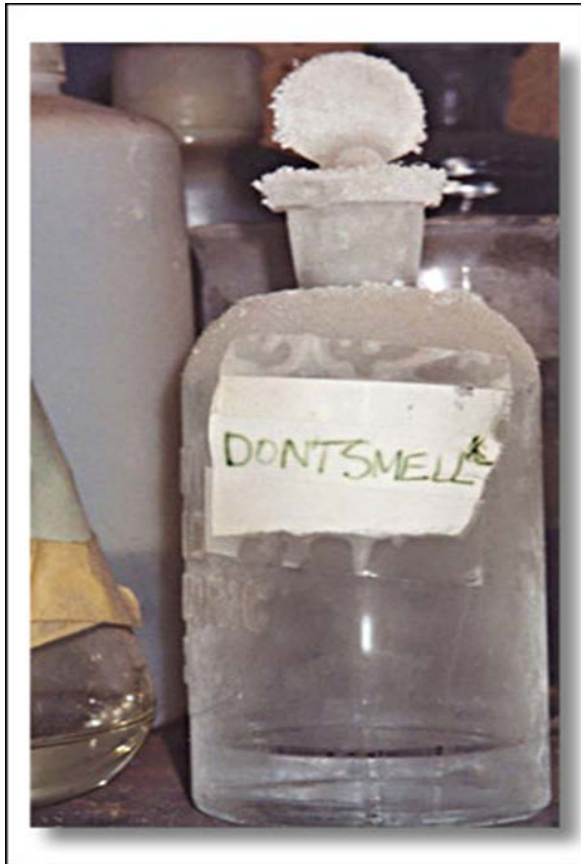


# Picture The Problem - Corrosion

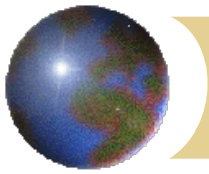




# Picture The Problem - Unknowns



My  
Personal  
Favorite!



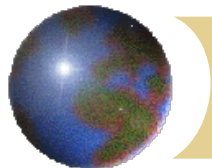
## Montana Data

# 2014 School Environmental Health Report

Montana scored average of 46% (F!) for jurisdictions participating in state assessment.

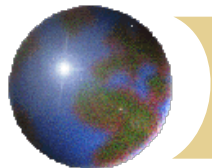
- Beaverhead County highest score at 73%
- Central Montana Health District lowest score at 31%

Source: 2014 School Environmental Health Report  
Montana Department of Public Health and Human Services



# Steps for Improving Lab Safety

- ✦ Draft a Chemical Management Plan
- ✦ Inventory
- ✦ Gather Information
- ✦ Determine Need
- ✦ Dispose of Unwanted Chemicals
- ✦ Finalize Chemical Management Plan and update each school year

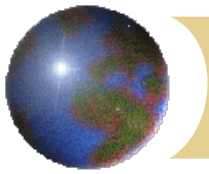


# Draft a Chemical Management Plan

Determine initial plan of action and document

- Acquire refresher training  
<http://labsafety.flinnsci.com/Home.aspx>
- Research historical lab information
- Ensure proper PPE is in place
- Develop a spill response plan





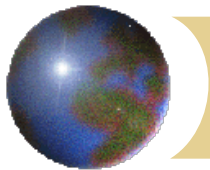
# Inventory Chemicals

- Chemical or Product Name
- Place Stored (room, name, building)
- Program used by and if currently used
- Date of Purchase (prior to current date if unknown)
- Size of container and amount in container

☞ Always work with a partner

Wear goggles, gloves, apron

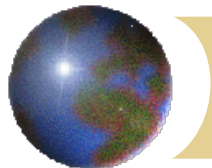
Expect and prepare for emergency



# Gather Information

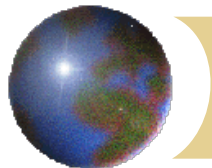
- ✦ Curriculum
- ✦ Labels
- ✦ MSDS Sheets
- ✦ Books / Websites
- ✦ Analysis

Do you have excessive risk chemicals?



# Determine Need

- ✚ What of chemical inventory is currently used/what's needed?
  - ⊞ Discuss with other teachers to see what chemicals are used in current curriculum
  - ⊞ If it's not needed and current, get rid of it!

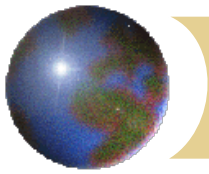


# Dispose of Unwanted Chemicals

- ✦ Using inventory list and current needs list; determine what chemicals need to be disposed
  - ❑ Some can go to landfill
  - ❑ Some can be treated to meet sewer disposal requirements
  - ❑ Some must be handled as hazardous waste

Again – the Flinn website can be helpful with these determinations

<http://labsafety.flinnsci.com/CourseDetails.aspx?CourseCode=CSA>



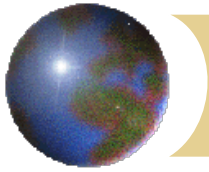
# Dispose of Unwanted Chemicals

## ✚ Disposal Costs!!!!

Submit disposal inventory to 3-4 waste consultants and request bids

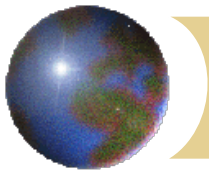
<http://deq.mt.gov/HazWaste/default.mcpX>

Have a plan and budget for it.... \$10-15K



# Finalize Chemical Management Plan

- ⊕ Administrative Policies (responsibilities and duties)
- ⊕ Purchasing Procedures (only necessary)
- ⊕ On-Site Chemical Management (inventory, storage procedures, spill response procedures, disposal, etc.)
- ⊕ Annual Review, Training and Update



Thank You!

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