Research Safety Program

DRAFT to be presented to the Bridge Group
Joe Klancher, MPH, CSP Research Safety Program Manager
November 19, 2013
Objectives

Provide an overview of the Research Safety Program
Establish a robust Safety Culture and eliminate unnecessary risk of harm to employees in the Research Community

**Additional Benefits:** Preservation of physical and intellectual property, environment, finances, and reputation of the University of Minnesota.
Consultative Approach

We serve as an agent for university leadership to establish expectations for successful safety performance, provide tools and resources to help manage safety performance, and establish systems to measure and communicate safety performance.

Our day to day interactions are with RSOs, supervisors and managers, safety committees and other leadership contacts.
Service Partners:
- Sabine Fritz - AHC
- Anna Sitek - CSE
- Jennifer Borgert – CBS / CFANS (interim)
- Open Position

Training Coordinator
- Cherie Lemer

Manager
- Joe Klancher
Departmental Research Safety Officers (RSOs)

- Approx. 100 departmental faculty or staff
- Assigned by Department Heads or Associate Deans for Research
- Role is to facilitate safety improvement in their departments
- DEHS provides guidance and assistance
Departmental Safety Committees

- CBS
- Vet Med
- Pharmacy
- Chemistry
- Chemical Engineering
- Mechanical Engineering
- JST Committee (Chem/ChemEng student led safety committee)
- CFANS (in the works)
Research Safety Manual

- Establish best practices for how we do things at the UMN
- Provide a resource to drive consistency and establish performance expectations
- Integrating Chemical Hygiene, Biosafety, and Radiation Safety Manuals into one Research Safety Manual
WORKSPACE DESIGN AND COMMISSIONING
LABORATORY CLOSING AND DECOMMISSIONING

PROTOCOL REGISTRATION/APPROVAL
PRE-PLANNING / RISK ASSESSMENT / SOPs
EXPOSURE ASSESSMENT / HAZARD ASSESSMENT
MEDICAL CONSULTATION AND SURVEILLANCE

INCIDENT/INJURY REPORTING
INCIDENT INVESTIGATION
INSPECTIONS
HAZARDOUS MATERIALS INVENTORIES
TRAINING / INFORMATION
LAB/SAFETY EQUIPMENT
PERSONAL PROTECTIVE EQUIPMENT
PURCHASING OR IMPORTING
TRANSPORTING HAZARDOUS MATERIALS ON OR AROUND CAMPUS
TRANSFER, SHIPPING, OR EXPORTING
SIGNAGE AND LABELING
STORAGE
DECONTAMINATION / CLEAN-UP

WASTE MANAGEMENT
DEFINITIONS
FACT SHEETS
Laboratory Safety Audits

Purpose
- Educate and “Train” lab personnel
- Augment supervision in the research community
- Instill accountability for safety with laboratory personnel
- Build safety advocacy among all participants

Change Behavior --- Change Culture
Audit – Key Indicators

1. Chemical Storage
2. Chemical Labeling
3. Personal Protective Equipment
4. Eyewashes
5. Fume Hoods
6. Hazardous Waste
7. Training

Also question lab personnel to identify general safety concerns
## Preliminary Results

### Research Laboratory Audits

**n=776**

<table>
<thead>
<tr>
<th>Category</th>
<th>% Labs with no deficiencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Storage</td>
<td>68%</td>
</tr>
<tr>
<td>Chemical Labeling</td>
<td>85%</td>
</tr>
<tr>
<td>Chemical Waste</td>
<td>72%</td>
</tr>
<tr>
<td>PPE</td>
<td>94%</td>
</tr>
<tr>
<td>Eye Washes</td>
<td>67%</td>
</tr>
<tr>
<td>Hoods</td>
<td>92%</td>
</tr>
<tr>
<td>Safety Training</td>
<td>78%</td>
</tr>
</tbody>
</table>

% Labs with no deficiencies

- Series1

[Bar chart showing the percentages for each category]
Ongoing Audits

- Annual visits
- High risk areas
- Areas in need of improvement
- Departmental request

- Every 2 years in other areas
- Combining Chemical/Biological/Radiation Safety Audits
- Implementing an electronic audit management system
Activities 2013-14

Affecting Labs in all Colleges

- Finish Research Safety Manual
- Laboratory Signage
- 1-page Safety Plans (Fire and Severe Weather)
- Safety Committee Development
- Administrative Policy for Research Safety
- Chemical Inventory System (2-3 year project, if accepted/approved)

College Specific Activities

- Particularly Hazardous Chemical Segregation (AHC/CBS)
- Hazard Assessment and SOP development in Chem/ChemE (CSE)
- Develop resources for Fieldwork and Process Safety (CFANS)
CAUTION!
THE FOLLOWING HAZARDS MAY BE PRESENT

 Organic Peroxides  Carcinogens, Chemotherapeutics  Flammables  Gas Cylinders

 Radioactive Material  Biohazard

Permit Holder: P. Faculty  BSL 2, human cell lines

WARNINGS:
Authorized Individuals Only - Keep Lab Locked While Unattended
No Food or Drink in Lab
Long Pants/Skirts and Closed-toe Shoes Required

EMERGENCY CONTACTS:
Paula Faculty 999-888-7777
Mora Tech 888-999-6666
Sarah Student 777-888-9999

Call 911 for all emergencies!

Updated: 9/18/2013
Weather Emergencies Emergency Response Plan

Laboratory Name: Building/Floor/Rm: Effective Date: Review Date:

Introduction

Depending on which building you are in, severe weather warnings will be announced over the internal overhead paging system, all hazard weather radio, TXT-U emergency phone texting system, or emergency sirens.

Note: For buildings that are not connected to the internal paging system, All Hazard Weather Radios can be purchased by individual departments; TXT-U (http://www.unm.edu/preparedtxtu) is available to all university staff and students.

Activation

Severe Thunderstorm Watch, Tornado Watch:

1. Remain calm and reassure students/visitors.
2. Inform others in the work area of the notification.
3. Close all windows, drapes, and blinds.
4. Prepare for possible power outage. (Flashlights can be found [location].
5. [Position Responsible] will replace flashlight batteries at least once per year on [date].
6. Stay alert for additional information and changing weather conditions.

Tornado Warning:

1. Remain calm and reassure students/visitors.
2. [Position Responsible] is responsible for coordinating the movement of all students, visitors, and staff away from windows and glass enclosures into protected inner corridors of the building. Check with the Department of Emergency Management (DEM) or your building manager to determine if you should take additional action to relocate to the basement of your building.
3. Close all doors to rooms with outside windows.
4. Listen to all emergency paging, and TXT-U which will be used to update staff.
5. [Work unit specific actions]

Review and Training

[Position Responsible] is responsible for updating this plan at least every two years and ensuring that it is reviewed with all unit staff at least annually and with all new employees within 30 days.
Activities in FY 13-14

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Thank You!

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