LABORATORY SAFETY AWARDS & INNOVATIONS EVENT

December 9, 2019
HUB, room 250

LAB SAFETY AWARD
EH&S

ENVIRONMENTAL HEALTH & SAFETY
UNIVERSITY of WASHINGTON
The Washington Clean Energy Testbeds, located in the Bowman Building provide fee-for-use facilities with state-of-the-art fabrication, characterization, and computational capabilities. Researchers from UW and industry work on next-generation solar energy and battery materials and devices, modeling of energy systems and the grid, and other related technologies.
LAB USER SAFETY TRAINING

The following are required of all new users:

> EH&S Online Trainings
  - Fire Extinguisher
  - GHS Globally Harmonized System (HazCom) Training
  - Lead Awareness (Perovskite Photovoltaics)
  - Managing Laboratory Chemicals
  - Fume Hood
LAB USER SAFETY TRAINING

The following are required of all new users:

> On-Site Orientation
  – Important Lab Documents
  – Dress Code & Gowning Procedure
  – Chemical Hygiene Plan & Materials Requests
  – Buddy System
  – Emergency Communication
  – Fire Safety & Evacuation
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  – Emergency Communication
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WHY HF IS USED

HF materials requests MUST justify use. Currently only used for purification of materials for lithium-ion batteries

> Users encouraged to find alternatives
> Minimal amounts and concentrations
> Additional Training Required
  – EH&S Online
  – On-site with signed verification
**CURRENT HF SOP**

Lab-specific SOP developed based on EH&S SOP

- Teams of 2
- Staffed hours only
- Clear signage
- Spill kit
- Cleaning materials
- Emergency documents
ACCIDENT AND RESPONSE

Altered set-up led to faulty ring stand placement, which led to spill

- Emergency response went well
- No injuries
- Deadline was a factor
- Corrective actions to enhance prevention & response
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Thank You!

For more information

- Web: wcet.washington.edu
- Twitter: @WCETestbeds
- Email: mpomfret@uw.edu or wcet@uw.edu
UW EH&S LABORATORY SAFETY AWARDS & INNOVATIONS EVENT

CERID SAFETY TEAM

Grant Whitman
CENTER FOR EMERGING AND RE-EMERGING INFECTIOUS DISEASES

> CERID specializes in cross-disciplinary research to identify, prevent, diagnose, and treat infectious diseases

> Spanning 15 labs, 2 floors, and over 100 researchers, ensuring that everyone is on the same page with respect to safety is of paramount importance
UW MEDICINE AT SOUTH LAKE UNION

A campus away from campus

> UW Medicine SLU buildings are leased from BGIS Realty
> Although still subject to UW EH&S policies, over time there were some differences that arose in policy and policy implementation
STARTED INTERNALLY, EXPANDED OUTWARD

The CERID Safety Team was established in August 2018 to ensure a cohesive safety program and structure within the center
- Includes representative from each lab in unit
- Focuses on biosafety and chemical handling and management

As cohesiveness within CERID was established, began to address other issues around the SLU campus
CERID SAFETY TEAM QUARTERLY MEETINGS

A time to address incidents and concerns

> Incidents that the team has addressed
  – Mouse bite incidents
  – Hit by falling item
  – Security incidents

> Review new policies/changes to existing policies

> Identify tasks to make CERID safer, more efficient, more organized
GENERAL LAB SAFETY

> CERID shared equipment, open to all users now has an equipment point of contact for all users to receive training from prior to use
> Team sends monthly newsletter with safety related topics, for both in the lab and outside of it
> Website is updated with commonly used resources and information
Segregating Hazardous Waste Streams

A fire in the Brotman Automotive Room highlights the importance of segregating waste streams. An investigation identified that dimethyl sulfoxide (DMSO) was improperly disposed of into a potable water container. During the auto-flame process, it is suspected that the DMSO ignited and consumed the oxygen in the container. When the auto-flame was opened the following day, a large smoke filled out and the waste ignited immediately. The fire was extinguished by the technician.

- Flammable, reactive, oxidizer, corrosive, toxic, and radioactive wastes should not be disposed of with biohazard waste.
- If you have biohazard waste contaminated with other hazardous waste, contact sbios@uw.edu for consultation.
- For more information, consult the Biohazardous Waste Guidelines, page.

Text-to-911 Now Available in King County

Call if you can. Text if you can’t.

King County, along with eleven other Washington counties, now accept text messages to 911. This service benefits those who are unable to speak during emergency situations, such as a home invasion or abusive partner, as well as those that are hearing impaired or speech impaired. You should always call 911 if you can, as you will be able to provide information more quickly than over text.

Here’s what you need to know about this new service:
- To text 911, open your text messaging program, enter “911” in the recipient field. In the body of the message, include the exact location of the emergency involving the city, the types of help needed (police, fire, or medical) and press send. Operators may follow up with additional questions.
- If you are texting 911 in order to not be heard, be sure to silence your phone.
- Do not include other recipients, as a group message will cause the message not to go through.
- Improvise are not available for text at this time. Only use plain English and do not use abbreviations or acronyms.
- Photos and videos cannot be sent.
- If Text-to-911 is unavailable in your area or the message otherwise does not go through, you should receive an alert message.
- Text-to-911 is not available while roaming.
Previous campus Emergency Evacuation and Operations Plan (EEOP) was from 2011

With the rollout of the Fire Safety and Evacuation Plan (FSEP), good time to lobby facility staff to update

Established meetings with Scott Nelson (EH&S Fire Safety & Engineering Manager) and Facility staff to identify updates needed
Conducted earthquake drill and evacuation drill
  - Maintain a roster and identify a contact from each lab

In the process of obtaining supplies for a disaster kit in the event of a prolonged emergency
CERID SAFETY TEAM CONTACT INFORMATION

CERID Safety Team Members
Lynn Barrett, Robyn Emery, Mark Fernandez, Rob Gillespie, Chris McClurkan, Samantha Michaels, Glenna Peterson, Lesley Rabago, Melanie Shears, Robert Smith, Richard Wells, Grant Whitman, Krystle Yu

• ceridst@uw.edu
• cerid.uw.edu/safety
2019 SAFETY INNOVATIONS
Baker Lab
Biochemistry, College of Arts & Sciences
HOLDING PPE PRODUCT SHOWS FOR LAB MEMBERS

Lukehart / Marra Labs
Neurology, School of Medicine
SAFETY QUIZZES AS PART OF LAB MEMBER ORIENTATION AND TRAINING

Ratner Lab
Bioengineering, College of Engineering
NOTIFICATION SYSTEMS FOR EQUIPMENT USE

Gale Lab
Immunology, School of Medicine
USING SLOGANS AND UNIQUE SIGNAGE FOR SAFETY COMMUNICATION

Pun Lab
Bioengineering, College of Engineering
HANDS-ON TRAINING THROUGH THE BUDDY SYSTEM
Steig Lab, IsoLab
Earth and Space Sciences,
College of the Environment

LAB SOP WEBSITE

Dunham Lab
Genome Sciences, School of Medicine
CUSTOM CHECKLISTS FOR TRAININGS
AND POLICIES

Raymond RedCorn
Civil and Environmental Engineering,
College of Engineering
SHARED EQUIPMENT INVENTORY APP

Society for Advanced Rocket Propulsion (SARP)
Aeronautics and Astronautics, College of Engineering
INCLUDING STUDENTS IN RISK ASSESSMENT
AND SOP DEVELOPMENT

Velian Lab
Chemistry, College of Arts & Sciences
RISK EVALUATION SOFTWARE

MacCoss Lab
Genome Sciences, School of Medicine
ELECTRONIC
CHEMICAL HYGIENE PLAN
Nance Lab
Chemical Engineering, College of Engineering
REFRESHER TRAINING DAYS FOR THE WHOLE LAB

Kerr Lab,
Biology, College of Arts & Sciences
REVISING PROTOCOLS TO REDUCE THE RISK OF FIRE

Coombs Lab
Lab Medicine, School of Medicine
ROTATING ASSIGNMENT OF SELF-INSPECTIONS

Jane Ranchalis
Medical Genetics, School of Medicine
TRAINING CHECKLISTS FOR AUTOCLAVES

Gelb / Velian / Dalton Labs
Chemistry, College of Arts & Sciences
CONDUCTING CROSS-INSPECTIONS WITH NEIGHBORING LABS

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2019 PACK LEADERS IN SAFETY AWARD WINNERS

- Gerard Cangelosi
- Charles Chavkin
- Manuel Ferreira
- David Ginger
- Ann Groat-Carmona
- Santica Marcovina
- Jonathan Posner
- Eric Steig
- David Symon
2019 TOP DAWGS IN SAFETY AWARD WINNERS

- Department of Anesthesiology
- Department of Aquatic & Fisheries Sciences
- Department of Chemical Engineering
- Department of Global Health
- Department of Obstetrics & Gynecology
- Department of Pediatrics
- Department of Physics
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