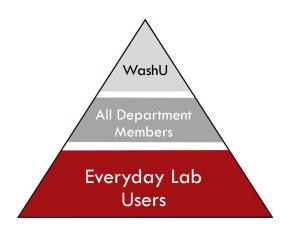


Washington University in St. Louis Department of Chemistry-Peer Safety Committee Rena Kramer

### **ABOUT US**

Peer led safety group committed to raising safety awareness and inspiring a positive safety culture within the Chemistry Department at Washington University in St. Louis

- Department wide Safety Initiatives
- Lab Safety Team
- ACS Graduate Student Organization





Chair-Rena Kramer



Secretary-Ashlyn n Berry





### ABOUT US

#### LAB SAFETY TEAMS

- Apart of a community of other researchers for discussing safety
- Access to safety education and guidance
- Ability to discuss challenges and successes with department safety culture



Image Credit: Calla Mae McCulley

#### **ACS GRADUATE STUDENT ORGANIZATION**

- Access to resources helping with financing, retaining members, organizing events, running meetings, and much more.
- Solidified the Peer Safety Committee by helping us write bylaws
- Opportunities to apply for grants for the committee



### PSYCHOLOGICAL SAFETY

Psychological safety means feeling safe to take interpersonal risks, to speak up, to disagree openly, to surface concerns without fear of negative repercussions or pressure to sugarcoat bad news. –McKinsey and Company

# HIGH QUALITY RELATIONSHIPS LEAD TO PSYCHOLOGICAL SAFETY

"...psychological safety is enhanced by high-quality relationships of shared goals, shared knowledge, and mutual respect."<sup>2</sup>

- Changing department's view of EH&S from authoritative to collaborative
- Emphasizing a common goal of safety between the department and EH&S

# BEING PSYCHOLOGICALLY SAFE LEADS TO SAFETY EMPOWERMENT

- "...when employees perceive that management are committed to safety, such safety climate influences safety behaviour and tend to reciprocate by compliance with safety rules and cooperation in safety teamwork"<sup>3</sup>
- Empowered department members will be more compliant and willing to reach out about concerns

<sup>1.</sup> https://www.mckinsey.com/featured-insights/mckinsey-explainers/what-is-psychological-safety

<sup>2.</sup> Carmeli, A. and Gittell, J.H. (2009), High-quality relationships, psychological safety, and learning from failures in work organizations. J. Organiz. Behav., 30: 709-729.

<sup>3.</sup> David Yoon Kin Tong, Devinaga Rasiah, Xue Fa Tong, Kim Piew Lai, Leadership empowerment behaviour on safety officer and safety teamwork in manufacturing industry, Safety Science, Volume 72, 2015, Pages 190-198.

# WHAT EMPOWERMENT MEANS FOR THE DEPARTMENT

Establishing high quality relationship with EH&S

EH&S becomes a psychologically safe resource for department members

Department members are more inclined to comply with safety regulations Department members are empowered to speak up/ask questions before incidents occur

# HOW CAN WE ESTABLISH A HIGH-QUALITY RELATIONSHIP?

- Demonstrating a high-quality relationship as student safety leaders
- Show EH&S as part of our team and not just an authoritative entity
- Increase EH&S presence in the department

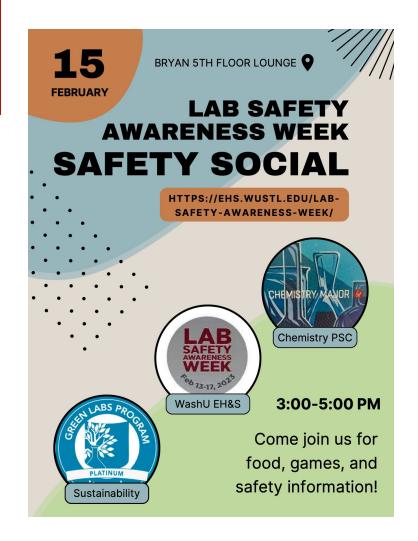
# PEER-LED SAFETY INITIATIVES

Involving EH&S in Departmental Activities

# SAFETY SOCIAL

#### 2 Hour Open House Focusing on Safety

- Done as part of CSHEMA's Lab Safety Awareness Week
- Brought departments attention to safety and gave them an opportunity to participate in safety discourse
- Peer Safety Committee facilitated snacks and advertising for the event
- EH&S provided a table with safety labels, games, and the opportunity to speak to an EH&S member about safety
- Sustainable lab program at WashU provided a table with information on conducting lab work in a greener way



# SAFETY SEMINAR & WORKSHOP LUNCH

#### **PSC Sponsored Event Focused on Industrial Safety**

- Speaker Dr. Keith Reed from ExxonMobil
- Two-day event series including a department seminar, student led lab tours, and workshop lunch
- EH&S presence at department seminar and workshop lunch to provide additional perspective on safety at WashU

#### Safety Seminar & Workshop

Keith Reed, ExxonMobil

Grad Student workshop lunch with Keith! Free catered food! Safety!



Departmental Seminar hosted by the PSC! We will have cool snacks, please come!

April 4<sup>th</sup>

Join us April 4th and 5th for the first ever PSC Safety Seminar & Workshop! This unique opportunity allows for members of the department to learn about the gaps in safety between academic and industrial settings.

Keith is a member of the PALS workshop hosted by ExxonMobil every year. He received his PhD from Georgia Tech, which means he has firsthand experience in both academic and industrial safety.

We will have three events during Keith's visit:

- 1. Brown bag lunch on Thursday, April 4th for students to learn about careers at ExxonMobil
- Departmental Seminar Thursday, April 4th for the department to hear about safety and culture at Exxon Mobil
- Safety Workshop Lunch on Friday, April 5<sup>th</sup> for graduate students to meet with Keith and discuss the importance of safety in research settings.

Please contact Rena (<u>k.rena@wustl.edu</u>) with any questions or if you're interested in attending the Brown Bag Lunch or are a graduate student interested in the Safety Workshop!

### ANNUAL DEPARTMENT SAFETY TRAINING

#### Mandatory Departmental Training for All Lab Workers

- Theme and speaker decided with input from members of the Peer Safety Committee and EH&S
- 10 Minute presentation given by two members of the Peer Safety Committee and members of EH&S
- A way for EH&S to share their new initiatives and resources with the department



### PALS WORKSHOP ATTENDANCE

#### Partners in Academic Laboratory Safety

- Co-Founding member of PALS
- Now involves six schools:
  - WashU, UT Austin, Georgia Tech, University of Florida, University of Houston, Texas A&M
- Annual workshop hosted by ExxonMobil focusing on the gap between academic and laboratory safety
- Participation from six schools, each bringing a different safety perspective
- An EH&S member from WashU attends each year





### JOINT SAFETY CERTIFICATE



#### Safety education program that is consistent among schools.

- Program that focuses on the application of knowledge through practical demonstrations
- Have worked with other schools, primarily UT Austin for two years developing the program
- Have worked personally with an EH&S member from WashU to find support for the program
  - CSHEMA has taken stewardship



Angie Dartt, Director of Chemical Safety at WashU

## **EVIDENCE OF SAFETY EMPOWERMENT**

Testimonies of Department and EH&S Members

### **TESTIMONIES**

"Working with chemistry is always exciting because I get to see the benefits of having a partnership with chemistry and a department invested in safety. When we meet new students in safety class, we are able to impress upon them the importance of safety, and reinforce it when we present at the annual safety seminar. ... As a result, chemistry has the best safety culture of any group at WashU by a wide margin, and despite the hazards they work with, we don't have to worry about them nearly as much as some other departments."

-Mark Mills, EH&S

"It's nice to know that our safety exists as a collaboration. Safety procedures are not simply handed down from a faceless entity."

-Ashlynn Berry, Graduate Student

"[The safety culture] has made me feel comfortable asking for help or advice about handling safety issues without feeling like I'm going to get the lab in trouble."

-Tom Howell, Graduate Student

### THANK YOU

Rena Kramer

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https://chemistry.wustl.edu/safety



Members of the Peer Safety Committee

Ashlynn Berry

Madalyn Bochantine

Jovelt Dorsainvil

Anissa Findley

Isaac Fuentes

Ryan Gagnon

Triston Groff

Tom Howell

Avika Jayatilaka

Collin Merrick

Sierra Napoleon

Savannah Scruggs

Sabrina Talir

Kristen Wang

Valerie Winkler