



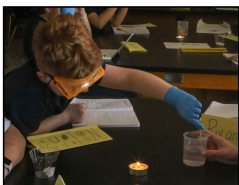
Don't spill the tea (or the chemicals): A safety initiative at TCU

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Community Outreach

Results from our work at Burton Hill Elementary



Goal:
To perform a flame experiment with various salts and focus on students use of proper personal protective equipment (PPE). The students were expected to wear safety goggles and gloves to protect themselves from potential hazards.

Experiment:
"Set fire to" various salts leading to the emission of different colors.

How:
Lesson on PPE and laboratory safety to help students protect themselves during a flame-test experiment. The students were evaluated for their knowledge of laboratory safety before experiment began.

Content:
Emphasized many different safety aspects such as not eating in the lab, tying hair back, and keeping safety goggles on.



Evidence of Improvement:
Students filled out a questionnaire about safety precautions before and after the safety presentation and experiment time.

The post-lab quiz showed an improvement in understanding of safety skills in a lab setting.

Lessons Learned:
Why it's important to protect yourself from dangerous chemicals and safety hazards.



Shut the Sash – Saving Energy

Rationale:
Chemical and biological fume hoods are an important part of any safe and specialized laboratory. Keeping hood sashes closed decreases airflow, thus promoting energy efficiency in addition to general lab safety practices.



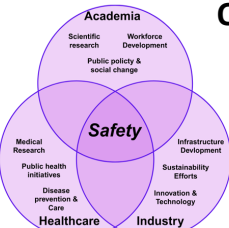
Goal:
Reminding our undergraduates and researchers to close the fume hoods with fun stickers and memos is a creative mechanism to encourage student engagement.



What:
TCU Chemistry Club members designed and voted for sticker designs that are now on hoods throughout the chemistry department.



Our Mission



- Prepare our students, particularly those heading to fields their require further education including Academia, Industry, and Healthcare.
- Safety is *critical* for these fields to provide an effective and efficient place of learning and productivity.
- We want to integrate safety as a fundamental skill in our campus to create valuable members of society.
- Chemistry Club has made it our mission to raise awareness and make safety a focus of TCU's scientific community.

TCU Safety Team

Rich Adickes
Manager of Hazardous Waste Materials



Thanks to the TCU Safety Team, we are:
Adding QR codes in every lab for quick lab safety reporting.
Starting the Goggle Initiative to ensure all labs comply with ANSI standard Z87.1 for eye protection.

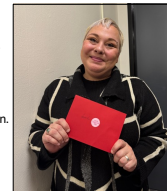
Maintaining an open door policy to promote reporting.

"Wear your goggles!"
—Rich Adickes

- Safety duties:**
- Rich specializes in:
 - Hazardous waste determination
 - Cost reduction minimization
 - He loves to talk with students and help familiarize them with safety protocols



Amanda Fletcher-Dembicki
Laboratory Safety Specialist



- Safety duties:**
- Amanda's experience with planning lab courses and lab safety compliance has:
 - Improved efficiency of safety protocols
 - Helped faculty transition to teaching lab courses.

Social Media Presence

Scan the QR code to check visit our Instagram!

What you will see:

- Discover our engaging safety photoshoot images.
- Receive comprehensive information directly from our Safety Team.
- Experience the ACS conference through our student takeovers.
- Learn essential do and do-nots of lab safety.



Follow for frequent updates about our Chemistry Club!

Who We Are:

- Follow the Chemistry Club on Instagram for frequent updates and an insider's look at our chapter activities.
- Posts aim to boost campus-wide awareness about lab safety protocols and initiatives.
- Successfully reaching over 2,100 members of our community through engaging content and informative posts

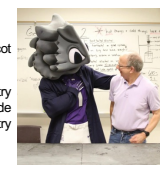
Campus Initiative for Safety



Who is SuperFrog?

TCU's school mascot and spirit leader!

To support Chemistry club, SuperFrog made a visit to the Chemistry department!

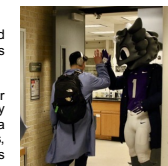


Goal:
All of the Texas Christian University Community are Horned Frogs and the chemistry department is no exception.

To emphasize the importance of safety our fearless leader, SuperFrog comes to support our mission

Impact:
SuperFrog engaged with and encourage our faculty and students entering lab for Spring 2025

SuperFrog's work supported our efforts to produce and share safety posters and announcements via social media and hard copies, spreading safety awareness across our community.



Safety Training Course



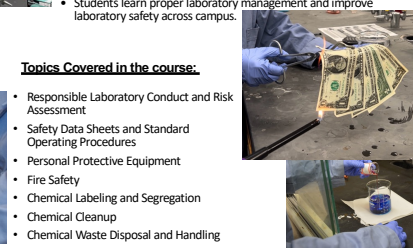
In Fall 2024, TCU launched a new course called *General Laboratory safety* for upcoming teaching assistants

Goal of the course:

- The opportunity to learn more about laboratory safety.
- The tools they need to keep other students and themselves safe in the lab.
- Students learn proper laboratory management and improve laboratory safety across campus.

Topics Covered in the course:

- Responsible Laboratory Conduct and Risk Assessment
- Safety Data Sheets and Standard Operating Procedures
- Personal Protective Equipment
- Fire Safety
- Chemical Labeling and Segregation
- Chemical Cleanup
- Chemical Waste Disposal and Handling



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