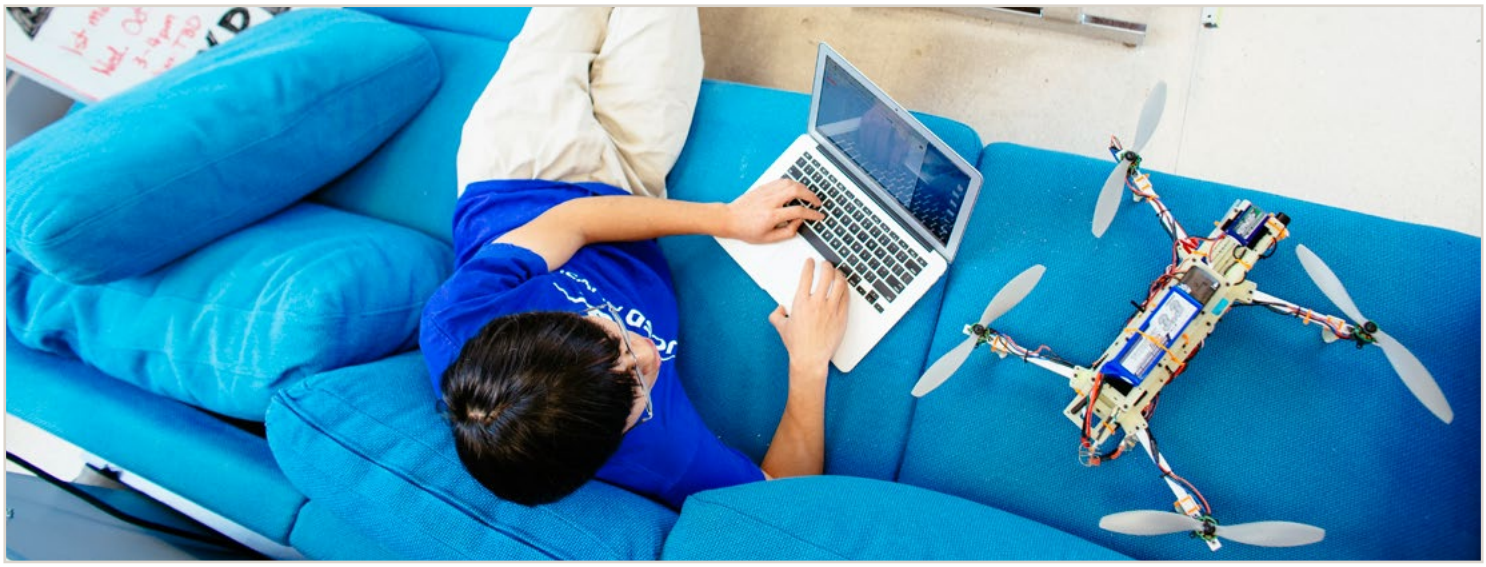
UC **Safety Spotlight**

A UC Systemwide Publication of the Environment, Health & Safety Leadership Council

September 2016

Safety Training



UC LEARNING CENTER UPGRADE

Discussions have begun with SumTotal, the vendor for the UC Learning Center about the next upgrade to the learning management system (LMS) which will take place in late spring of 2017. This upgrade will include significant changes to the user interface and will also remove existing customizations providing greater flexibility for future upgrades. The LMS administrators and key contacts will begin receiving information in the coming months about the timeline and the level of work needed to prepare for the upgrade.

SEPTEMBER POSTER

Training Resources

Systemwide Training Development

By: Janette de la Rosa Ducut, Ed.D.

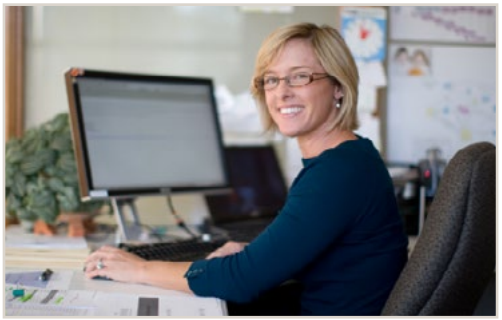
A few years ago the UC Systemwide Training & Education Workgroup (STEW) engaged in a project to develop online training resources for all the campuses. This led to creation of courses such as: Bloodborne Pathogens, Controlled Substances, Hazard Communication, Laboratory Safety Fundamentals and Supervisor Safety. The courses were intended to fulfill campus needs, and comply with federal, State of California, University of California, and campus-specific regulations involving a variety of health and safety topics.

This project led to creation of cutting-edge and engaging training. It was also a platform for standardization of content. That is, a course completed at one campus could now be taken to another for credit. Faculty, staff and students no longer had to repeat the same training.

STEW continues to pull together to share resources, and harness the knowledge of EH&S professionals across the system. Using the "Power of Ten", these systemwide courses enjoy a level of scrutiny and peer review during development that is stronger than if created by one campus alone.

The Center of Excellence (COE) for Risk and Safety Training & Education now supports and upholds this project. This team provides resources to develop and coordinate courses, avoid duplication and work from a pool of subject matter experts. The partnership has resulted in a library of courses across Enterprise Risk Management, EH&S and Medical Center initiatives. These can be viewed online at http://uctraining.education (under "Courses"). Courses produced by this initiative are available for use in the UC Learning Center (UCLC), the University learning management system powered by SumTotal.

Moving forward, the plan is to continue development of engaging online training in a manner that benefits all campuses. The strong partnership and comradery experienced in STEW allows for provision of accessible and effective training and education resources; and promotion of safety culture.



TRAINING & EDUCATION CENTER OF EXCELLENCE FEATURED TRAININGS

The following courses have recently gone live:

- STEW meetings 2014-15, 2016
- Laser Safety
- Food Safety for Dining Services (UCR)
- Workplace Violence Prevention
- Flame Resistant Gloves (eLearning)
- Lockout/Tagout (UCI)

Featured this month:

- Hazard Recognition & Control
- Heat Illness
- Supervisor Safety

SAMPLES:

eLearning:

- Hazard Recognition & Control (eLearning that is highly interactive / no narration)
- Shop Safety (eLearning showing several modules within one course; which people can jump through

Videos:

- Flame Resistant Gloves (Explainer video with animations)
- Handwashing ("How To" video for a process)
- WASTe ("How To" video for software)
- CHOG (Promotional animated slideshow summarizing a training / exercise event)

Recordings/Webinars:

- Department Safety Coordinators (Recording of live webinars)
- Fall Protection (UCSC - Recording of live presentation)
- Disaster Preparedness (UCI - Recording of Microsoft PowerPoint Presentation)

View more training courses

Flood Risks and Wasted Water with Single Pass Cooling

By: Katie Maynard, LabRATS Co-Director, UC Santa Barbara

Saving water not only directly saves money it also creates savings in cost avoidance through flood reduction. In July 2014, a laboratory at UCSB was flooded, destroying $2.2 million in custom-built research equipment. Research was shut down for four months, impacting the ability of graduate students and faculty to work. The flood was caused by the failure of a commonly-found, single-pass water cooling system used as a bench-top condenser. These continuous-flow systems are often soft-plumbed making them particularly susceptible to flood risks. In addition to reducing catastrophic flood risks, the U.S. Environmental Protection Agency names their elimination the fourth best way to save water. By replacing 54 units, 2.5 million gallons of water was saved annually at UCSB (1.2% of potable water use).

Insurance companies are now aware of the flood risks. At UCSB, the campus insurance provider has given notice to the school that if a flood was caused by a soft-plumbed single-pass cooling system in the future, insurance would not cover it.

Researchers use single-pass cooling condensers for a variety of experiments. To address these diverse specifications, UCSB LabRATS offered three alternatives. These include a simple recirculating bath ($135 after tax and shipping); Air-cooled condensers ($330); and a recirculating bath with plumbed heat exchange ($2,500 plus campus labor costs for plumbing.) Luckily, the most expensive systems were only needed in a few cases and the other models worked in almost all of the remaining situations. Funding was provided for this replacement effort by the Be Smart About Safety Program, the UCSB Green Initiative Fund (TGIF), and the Goleta Water District.

Substantial water savings can be achieved when selecting new equipment, especially autoclaves. An autoclave is a pressure chamber used to sterilize equipment and supplies with high pressure steam at 250 degrees F. In conventional design, they are always hot, and have continuous cooling water. This medical-grade design is not needed where sterilization has declined due to the abundance of sterile plastic lab-ware. Delphine Faugeroux, at UC Riverside, metered traditional medical-grade autoclaves as well as new, more efficient, research-grade models. Ms. Faugeroux found that newer models can save 81% of the energy and 93% of the water.

There are also opportunities to upgrade fiberglass and foil insulation, replace water ejectors with vacuum pumps, and use temperature sensors to regulate water flow to only what is required. Most autoclave companies offer efficiency kits tailored to their models.

The next update of the UC Policy on Sustainable Practices (http://policy.ucop.edu/doc/3100155/SustainablePractices) is expected to require campuses to identify existing single pass cooling systems and develop a plan for replacement. Soft-plumbed, single pass cooling systems will be banned. If no alternative exists for the research at hand, water flow must be automated and controlled to avoid water waste and flood disasters.

With the current drought conditions, there are funding opportunities for water efficiency. Consider taking advantage of the funding while it is available for efforts that also reduce floods.

CONNECT

Know where to turn on your UC campus for the information you need to keep yourself, your workplace and your environment safe and secure. Click on the campus links below to connect to local program, educational and informational resources.

UC Berkeley
UC Davis
UC Irvine
UCLA
UC Merced
UC Riverside
UC San Diego
UC San Francisco
UC Santa Barbara
UC Santa Cruz
UCOP
UC ANR

Safety Training News

Here are the top stories in the training world at the University of California.

Systemwide Training & Education Workgroup (STEW) takes on the high-level training topics. The workgroup is developing a repository of guides and resources, known as the STEW Cookbook. Topics include the learning management system, evaluations, training matrix, quizzing (or assessments), SME contacts, instructor-led training, infographics, mobile development, and ADDIE and SAM models. Chair Amy Shadkamyan (UCSB) and Co-Chair Alisha Klatt (UCB).

UC Training & Education Center of Excellence establishes a team to develop systemwide training, led by Janette de la Rosa Ducut, Ed.D. (UCR); in partnership with Jessica Drew de Paz (UCI). This group develops training, improves course participation, maintains a central repository, evaluates impacts, standardizes training programs and practices and provides opportunities for professional development and continuing education. Current progress to date includes publication of their catalog of courses, course evaluations, monthly/annual reports (including metrics), services to all campuses, outreach to all EH&S workgroups and conception of the EH&S Professional certification program. Recent courses produced include Flame Resistant Gloves, Heat Illness, Laser Safety and UC Ready. For more information, visit http://uctraining.education.

UC Center for Laboratory Safety establishes a Safety Training Consortium. This is composed of universities from across the nation who subscribe to training courses managed by UC. Custom developed courses will be produced by a vendor and made available to all UC campuses. They recently selected SkillSoft to produce eLearning courses for their member institutions. For more information, contact the Safety Training Consortium Administrative Officer Imke Schroeder, Ph.D.

Risk & Safety Solutions displays "My Training" in their Profile application. The system pulls course completions from the Learning Management System (LMS) and the Laboratory Hazard Assessment Tool (LHAT). For more information, visit http://risksafety.universityofcalifornia.edu.

SAFETY TRAINING RESOURCES:

STEW Standards and Guidelines

Training & Education Center of Excellence

E-Learning Instructional Design Blog

UC Policy on Sustainable Practices

UC Center for Laboratory Safety

Safety Training Consortium

Socrative

UC Risk & Safety Solutions

UPCOMING EDITIONS

October: Fire Prevention
November: Preparedness
December/January: Family Safety & Security

FEEDBACK, PLEASE

Send an email to EHS@ucop.edu to submit your comments on the September issue or to suggest content ideas for future issues. We look forward to hearing from you!

Safety Spotlight is published at the beginning of each month except January and July. To subscribe and automatically receive editions upon publication, please email: sympa@ucdavis.edu and type in a body of the email: "SUBSCRIBE safetyspot". UC Safety Spotlight is published by UC Office of the President. To submit an article for consideration, please send it to ehs@ucop.edu. This publication is produced and maintained by the Communications Team at Risk & Safety Solutions.