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University of California Centers of Excellence
ANNUAL REPORT
FY22/23

UNIVERSITY Center of OF CALIFORNIA

Excellence

## **Table of Contents**

### **Centers of Excellence**

#### ENVIRONMENTAL HEALTH & SAFETY (EH&S)

BSL-3 Biosafety Training Program	2
Center For Laboratory Safety	4
Field Research Safety	6
Fire and Life Safety Services	8
Health Systems EH&S Training	10
Pesticide Safety	12
Radiation Safety	14
Risk & Safety Training	16
Workplace Violence Prevention in Healthcare	18

#### **RISK MANAGEMENT**

Unmanned Aircraft System (UAS) Safety	20
Travel Registration and Insurance Services	22

#### WELLNESS

WorkStrong Program24
----------------------

### **Shared Services**

ENVIRONMENTAL	HEALTH & SAFETY (EH&S)	
Dive and Boat Safety	y Consortium	26

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**Overview** 

COE	LEAD	HOST LOCATION	SPONSORING PROGRAM	ESTABLISHED	STATUS
BSL-3 Biosafety Training Program	Gary Landucci	UCI	EH&S	2/1/15	Current
Center for Laboratory Safety	Imke Schroeder	UCLA	EH&S	2/1/15	Current
Field Research Safety	Sara Souza	UCB	EH&S	7/1/16	Current
Fire and Life Safety Services	Steve Guarino	UCLA	EH&S	7/1/22	Current
Health Systems EH&S Training	Christine Flanders	UCD Health	EH&S	4/1/23	Current
Pesticide Safety	Under Recruitment	UC ANR	EH&S - General Liability	4/1/20	Current
Radiation Safety	Cathleen Edmunds	UCSF	EH&S	12/1/17	Current
Risk & Safety Training	Janette Ducut	UCR	EH&S	4/15/15	Current
Travel Registration and Insurance Services	Nancy Osborne	UC Education Abroad Program	Risk Management - General Liability	1/1/22	Current
Unmanned Aircraft System (UAS) Safety	Brandon Stark	UCM	Risk Management - General Liability	3/1/16	Current
Workplace Violence Prevention in Healthcare	William E. Huey, Jr.	UCI Health	EH&S	7/1/22	Current
WorkStrong	Alison Frink	UCLA	Workers' Compensation	4/1/16	Current

SHARED SERVICES	LEAD	HOST LOCATION	SPONSORING PROGRAM	ESTABLISHED	STATUS
Dive and Boat Safety Consortium	Jim Hayward	UCSB	EH&S	7/1/19	Current

The Centers of Excellence (CoEs) are funded by the Office of Risk Services while Shared Service programs are funded by participating locations.

# **Centers of Excellence**

### **ENVIRONMENTAL HEALTH & SAFETY (EH&S)**

BSL-3 Biosafety Training Program Center for Laboratory Safety Field Research Safety Fire and Life Safety Services Health Systems EH&S Training Pesticide Safety Radiation Safety Risk & Safety Training Workplace Violence Prevention in Healthcare

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## **BSL-3 Biosafety Training Program**

The Biosafety Level-3 (BSL-3) Training CoE develops and delivers high-containment laboratory safety training for personnel groups, including laboratory staff, biosafety professionals, first responders and operations & maintenance personnel. The CoE is integral in supporting the systemwide High-Containment Laboratory Oversight Committee by conducting BSL-3 lab evaluations, plan reviews and on-site training.

### Accomplishments

- Conducted 4-day site-specific BSL-3 laboratory training at:
   UC Merced (8 participants)
- Conducted BLS-3 Laboratory Refresher trainings at:
  - UC Berkeley (21 participants)
  - UC San Francisco (63 participants)
- Conducted BSL-3 Operations and Maintenance Refresher trainings at:
  - UC Berkeley (27 participants)
  - **UC Irvine** (19 participants)
  - **UC Riverside** (11 participants)
  - UC San Francisco (14 participants)
- Conducted BSL-3 Plant Laboratory training online for:
  - UC Riverside (3 participants)

### **BSL-3 Trainings Conducted**

- Conducted fee-for-service BSL-3 training for the following non-UC entities:
  - Seattle Children's Research Institute (3-day; 13 participants)
  - University of Nebraska, Lincoln (4-day; 13 participants)
  - **CDC Atlanta, GA Campus** (4-day; 61 participants)
  - **Johnson & Johnson, Brisbane** (4-day; 20 participants)
  - Michigan State University (5-day; 15 participants)
  - **USC** (11 participants)
  - U.S. Army Dugway Proving Ground (3-day; 12 participants)

PARTICIPATING ENTITY	O& M +ANSI Z9.14 Training (3/4-day)	O&M Refresher Trainings (1-Day)	Laboratory Training (4-day)	Laboratory Refresher Trainings (1-Day)	Laboratory and O&M Training (5-day)	Site Specific Laboratory Training	Plant Laboratory Training	Total
UC Schools	10	71	26	84	0	8	3	202
Public Health	0	0	0	0	0	0	0	0
Other Academic Universities	15	0	27	11	15	0	0	53
Government Entities	5	0	78	12	0	0	0	95
Corporate	7	0	22	0	0	0	0	29
TOTAL	37	71	153	107	15	8	3	394

BSL-3 Biosafety Training Program



### **Onsite UCI BSL-3 Training Center**

### 4-day laboratory trainings conducted:

- UC Berkeley (1)
- UC Davis (3)
- UC Irvine (6)
- UCLA (1)
- UC Merced (1)
- UC Riverside (6)
- UC San Diego (1)
- UC San Francisco (7)

### 4-day facilities maintenance training:

- UC Berkeley (4)
- UC Irvine (2)
- UC Riverside (4)

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### **Center For Laboratory Safety**

The Center for Laboratory Safety CoE sponsors and supports research on laboratory safety practices with the goal of identifying, developing and applying best practices in laboratories. The Center for Laboratory Safety (UCCLS) is a founding member of the national Safety Training Consortium (STC), which focuses on developing impactful online training courses for academic institutions and researchers.

### Accomplishments

- Planned the 2023 Workshop on Laboratory Safety at UCLA
  - Topics to be covered include:
    - Incidents and responsibilities
    - Ethics and obligations in lab safety
    - Communicating lessons learned to prevent incidents in research labs
    - Machine learning and human factors in laboratory safety
    - Employing Artificial Intelligence applications for safety
    - Best practices for fire safety, shop, and maker space safety
- Managed the Safety Training Consortium, which recruited 5 new member institutions:
  - Johns Hopkins
  - Tufts University
  - Yale University
  - Baylor University
  - North Carolina University Research Campus

- Collaborated with the Risk & Safety Training CoE on STC course development
  - STC Courses released to UC campuses:
    - Pressure Vessel Safety [April 2023]
    - Fundamentals of Laboratory Safety revised [May 2023]
  - STC Courses in development:
    - Formaldehyde Safe Handling [for release in October 2023]
    - Risk Management for Researchers [for release in October 2023]
    - Pyrophoric Materials Safety [for release in December 2023]
- Delivered 37 presentations at major universities, companies and national conferences, including 13 at UC campuses
- Initiated the creation of a Laboratory Safety Team at UC Riverside

### Metrics

26,258

UCCLS website visits (up 39% from FY 21-22)



57

Safety Training Consortium members

UC Center for Laboratory Safety

 Launched an online Safety Tip library for all UC campuses (and beyond) to access (<u>https://cls.ucla.edu/safety-tips</u>).

The Safety Tip library provides a repository of safety notes and information that can be distributed to researchers as safety reminders or to prompt safety discussions. Examples include:

- Solvent storage
- Fire safety
- Lab freezer defrosting
- Nitric acid use
- Sharps disposal

### • Directly supported 4 UC Campuses and LBNL. Projects included:

- Laser safety
- Microbiology Department safety
- Student-led Safety Teams
- Laboratory Safety Contacts

### • Systemwide support by creating:

- Sharable Safety Tips
- Guide document for Laboratory Safety Contacts

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## **Field Research Safety**

The Field Research Safety CoE facilitates the sharing of lessons learned and best practices in field work, while promoting risk management through the development of safety planning tools and resources.

### Accomplishments

- Supported the CSHEMA Spring Symposium at UC Santa Barbara, an event focused on field research safety
- Added 3 new topics to the UC Fieldwork Toolkit Leadership Training Series
  - Behavioral First Response for Outdoor Professionals
  - Setting Boundaries for Personal Empowerment
  - Off-Road Driving: Lessons Learned & Precautions
- Provided outreach and guidance on the National Science Foundation (NSF)'s new January 2023 requirement for safe and inclusive plans for off-campus research. Plan components include:
  - Hazard assessment
  - Mentoring/Training
  - Communication processes
  - Mechanisms for reporting, responding to and resolving incidents
- Presented on Field Research Safety at San Francisco State University in October 2022
- Hosted the Spring 2023 UC Fieldwork Toolkit Leader Training Webinar Series. Resources can be found at <u>https://ehs.berkeley.edu/publications/uc-field-safety-leadership-training-series</u>
  - 262 live Zoom participants
  - 259 views online post-event

- Participated in a panel discussion at UC Berkeley on safe and inclusive fieldwork. Resources can be found at <u>https:// ehs.berkeley.edu/publications/uc-field-safety-leadershiptraining-series</u>
- Presented "Emerging Topics in Field Research Safety" at CSHEMA's Annual Meeting
- Managed Garmin inReach satellite device program for UC Natural Reserve managers affiliated with the following campuses:
  - UC Berkeley
  - UC Davis\*
  - UCLA\*
  - UC Santa Barbara\*
  - UC Santa Cruz\*

\*Note: manage loaner programs directly

6



### Metrics



Researchers and students from UC Berkeley and UC Merced participated in Wilderness First Aid Training



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### **Fire and Life Safety Services**

The University of California Fire and Life Safety Services program works to ensure the safety and well-being of the UC community across all locations. This program operates in collaboration with key partners, including the University of California, Office of the President (UCOP), the UC Council of Campus Fire Marshals (CCFM), the California Office of the State Fire Marshal (OSFM), and the California Department of Health Care Access and Information (HCAI), to addresses fire and panic safety concerns systemwide through evaluation, review, and the development of strategic recommendations.

### Accomplishments

- Established quarterly meetings with OSFM and HCAI executive teams to build relations and collaborate on MOU management.
- Developed new draft language for the renewals of the OSFM and HCAI MOUs.
- Developed proposed Fire Reporting Guidance to clarify OSFM MOU requirements.
- Collaborated with the California State University system to host virtual trainings provided by OSFM:
  - High Rise training (August 2023)
  - Emergency responder radio coverage (December 2023)
- Supported all UC locations through the process of identifying and nominating Designated Campus Fire Marshals (DCFMs) and Lead DCFMs to be approved by OSFM.
- Assisted UC Fire Prevention programs with recruitment and retention of DCFMs at:
  - UC Davis Health
  - UC Irvine
  - UC Merced
  - UCLA
  - UC Riverside
  - UC San Francisco
  - UC Santa Cruz
- Provided direct supervision and operational coverage as Lead DCFM for UC Davis Health to maintain compliance with OSFM MOU requirements while recruitment for a permanent Lead DCFM was completed.
- Provided temporary Lead DCFM coverage for UC Santa Barbara while Lead DCFM was away.
- Continued work with UCOP and OSFM to support the Fire and Life Safety Program at UC Merced.
- Collaborated with HCAI to support the training of 6 Fire and Life Safety Officer (FLSO) I candidates in the HCAI Academy.

- Assembled and finalized the HCAI/OSHPD application package for UC FLSOs to be become ODCFMs.
- Assisted with obtaining delegation from HCAI to allow ODCFMs to complete inspections and plan reviews for new construction and building updates within UC Health Systems.
- Distributed informational bulletin on Senate Bill 1044 requiring the replacement of firefighting foam containing Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS).



Metrics



UC Fire and Life Safety Officers participated in HCAI Academy





**Fire Academy sessions** 



Campus site visits and assists



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### **Health Systems EH&S Training**

The Health Systems EH&S Training CoE was established on April 3, 2023, with the aim of enhancing health and safety training across the University of California Health Systems. This report presents an overview of the Health Systems EH&S Training CoE's performance from its inception date until June 30, 2023.

### Accomplishments

- Customized and implemented 5 versions of COVID-19 Prevention training in close collaboration with UCLA Health, UC San Diego Health, UCI Health, UC Davis Health and UCSF Health.
- Formed a strategic partnership with the Workplace Violence Prevention in Healthcare CoE and WPVP programs at all health system locations to start development on a Responder Training Program to replace the Crisis Prevention Institute (CPI) training.
  - Estimated project completion: August 2025
- Participated in a collaborative effort with the Risk & Safety Training CoE, the Systemwide Training and Education Workgroup, and the Safety Training Consortium to ensure training continuity and accessibility throughout the UC.
- Presented initiatives and progress to the Environment, Health & Safety Leadership Council (EHSLC) Health System Working Group in May 2023.
- Began on an update and adaptation of Hazardous Drugs USP 800 training specifically for the UC Davis Veterinary Medicine Teaching Hospital.
- Assumed a role on the UC Training Leadership Council.
- Engaged with all health systems to adapt the new Supervisor Safety Training into a more flexible and accessible module to support training program needs. Key advantages include:
  - Responsive design
  - Ease of use
  - Time efficiency
  - Built-in interactivity
  - Contributor collaboration





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### **Pesticide Safety**

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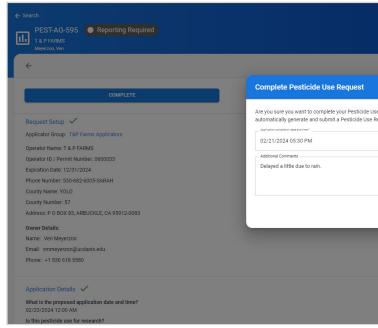
The Pesticide Safety Center of Excellence provides technical support to the UC Office of the President, Office of Risk Services to implement the recommendations of the UC Herbicide Taskforce, including acting in an advisory role to the UC Systemwide Pesticide Oversight Committee (SPOC).

#### Accomplishments

- Provided technical expertise and direction to SPOC by reviewing and revising the proposed UC Integrated Pest Management (IPM) Policy.
- Worked with UC Risk & Safety Solutions (RSS) to develop a pesticide list for tiering and conducted a review of the pesticides to ensure proper classification.
- Worked with RSS to develop and review the Pesticide Use Authorization software providing critical feedback from a client perspective.
- Presented an overview of IPM and key components of the draft IPM Policy at the 2022 Ethics Compliance and Audit Services symposium.
- Worked closely with the UC Risk & Safety Training CoE to develop online and in-person Pesticide Safety Education Training (PEST) modules to meet the UC requirements for applying certain pesticides.



← Search       PEST-AG-595     ● Draft       T & P FARMS	
Meyerzon, Ven	
Application Details   What is the proposed application date and time?*   MM/DD/YYYY hhrmm as   Is this pesticide use for research?* ③   Yes   No Briefly describe the application purpose, * ④   Do you want anyone outside of the Applicator Group to be notified if this Pesticide Use Request gets approved?   Yes No No Do you want anyone outside of the Applicator Group to be notified if this Pesticide Use Request gets approved?   Yes   No	SUBMIT Request Setup Application Details Pesticide Use Review



### Pesticide Safety



		Continue		
			COMPLETE	
Request? A completed request will eport to the appropriate county.			Request Setup	
Ö			Application Deta	ils
			Pesticide Use	
			Review	
			5 Next Steps	
Cancel Complete				

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## **Radiation Safety**

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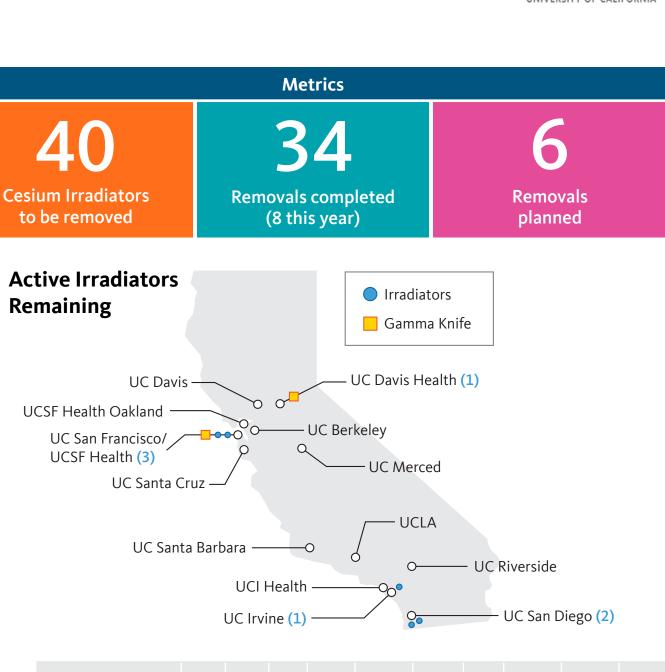
The Radiation Safety CoE provides expert guidance on radiation safety concerns within the University of California system. The CoE is supporting development of the UC Radiation software application and is managing the UC Cesium Irradiator Replacement Program (CIRP).

### Accomplishments

- Provided interim Radiation Safety Officer support for UC Irvine.
- Removed 8 Cesium Irradiators from the following locations:

3

- UC Davis: 2
- UCLA:
- UC Merced: 1
- UC San Diego: 2
- Updated the Cesium Removal Dashboard and Cesium Removal and Task List spreadsheets for UCOP and the Department of Energy (DOE).
- Provided CIRP removal reports for each removal to Sandia National Lab and DOE.
- Updated PowerPoint presentation for training local law enforcement agencies with security concerns and background information for Cesium Irradiator removals.
- Coordinated with UC Legal to finalize "Roles and Responsibilities" document for agreements between UCOP, National Labs and removal contractors.
- Coordinated Sandia (DOE) support for X-ray and Cesium Irradiator comparisons for both UC San Francisco and UC Davis Health with the assistance of C&C Irradiators using their 3-D printed mice models.
- Coordinated Irradiation services for outside vendors when the Cesium Irradiators were removed from the locations they had contracted with.



	UC Berkeley	UC Davis	UC Davis Health	UC Irvine	UCI Health	UCLA	UC Merced	UC Riverside	UC Santa Cruz	UC San Diego	UC San Francisco	UCSF Health Oakland	UC Santa Barbara
Cesium Irradiators to Remain	0	0	0	1	0	0	0	0	0	2	2	0	0
Gamma Knives to Remain	0	0	1	0	0	0	0	0	0	0	1	0	0



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## **Risk & Safety Training**

The Risk & Safety Training CoE develops, distributes and analyzes systemwide training on environmental health and safety topics and risk-related initiatives. The CoE produces training in a variety of blended formats, including online (eLearning), instructor-led, tutorials (video), and webinars.

#### Accomplishments

- Produced over 70 resources, including systemwide training courses and materials, presentations, videos and handouts.
- Managed course catalog of 250 courses and resources
  - Addressed 88 requests for accessibility, including issues not covered by course design, such as course transcripts and assistance with training completions.
- Completed 5 major training initiatives:
  - **Abusive Conduct:** [*eLearning*, *videos*, *website*] Covered a new UC policy on treating others with respect; launched to staff at all locations
  - **CANRA Mandated Reporter (Spanish):** [*eLearning*] Translated version aimed at preventing child abuse and neglect
  - **Cryogen Safety:** [*eLearning*, *videos*] Focused on safe work practices involving liquid nitrogen transfers
  - **Ergonomics:** [16 videos]
  - Office ergonomics videos launched as part of the Risk & Safety Solutions Computer Ergonomics
  - Self-Assessment program
  - **Supervisor Safety (UC Health):** [*eLearning, website*] Injury & Illness Prevention Program training for supervisors at UC Health Locations
- Updated the following websites:
  - Abusive Conduct: information, policies and instructor materials
  - **Gene Synthesis:** recordings, guidance memo, resources for implementing AB 1963
  - COVID-19 prevention: trainings, documents, checklists, plans, signage and templates
  - Fieldwork leadership: recordings and resources in support of first response, boundaries and off-road driving issues
  - **Reasonable Accommodations:** campus-specific contacts, resources, policies and FAQs
  - Sexual Violence and Sexual Harassment (SVSH) **Prevention:** training materials, policies and information

#### Metrics

# 420,384+

**Online trainings completed** in the Learning Management System



# 97,070

YouTube views







### **Evaluations received** (67% are "good" or "very good")



### **Top 5 Videos**

- Ergonomics for Facilities
- Cryogen Safety
- COVID-19 Prevention
- Ergonomics for Dining
- Bloodborne Pathogens Awareness

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### **Workplace Violence Prevention in Healthcare**

The Workplace Violence Prevention in Healthcare CoE leads systemwide efforts to develop resources, identify best practices, and coordinate data collection and distribution to support all UC Health locations in achieving collective compliance of Workplace Violence Prevention in Healthcare programs. The CoE promotes consistency and standardization across the programs, which requires strategic planning and coordinated preparation at the systemwide level.

### Accomplishments

- Developed a systemwide WPVP assessment workbook for program reviews, including:
  - Questionnaire
  - Document List
  - Cal/OSHA Gap Analysis
  - The Joint Commission Gap Analysis
  - Scoresheet
- Developed a standardized program review process:
  - Request for documentation
  - Document review phase
  - Program document discussions
  - On-site visit
  - Complete program review documentation/scoresheet
  - Final report provided to UC Health location
  - Final report presentation and discussion
- Completed two UC Health WPVP program reviews
  - UCLA Health
  - UC Davis Health
- "UC Responder Training" project launch meeting:
  - Completed project roadmap/timeline
  - Identified training modules
- Onsite WPVP program support
  - UC San Diego Health
- Provide ongoing WPVP program support to all UC Health locations.

#### Metrics

WPVP Program reviews - Opportunities and best practices identified to strengthen program compliance with Cal/OSHA regulatory requirements and The Joint Commission accreditation standards

21

15

WPVP program best

practices identified

WPVP program opportunities for systemwide standardization

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### **UC Health Systems Map**



# **Centers of Excellence**

### **RISK MANAGEMENT**

Unmanned Aircraft System (UAS) Safety Travel Registration and Insurance Services

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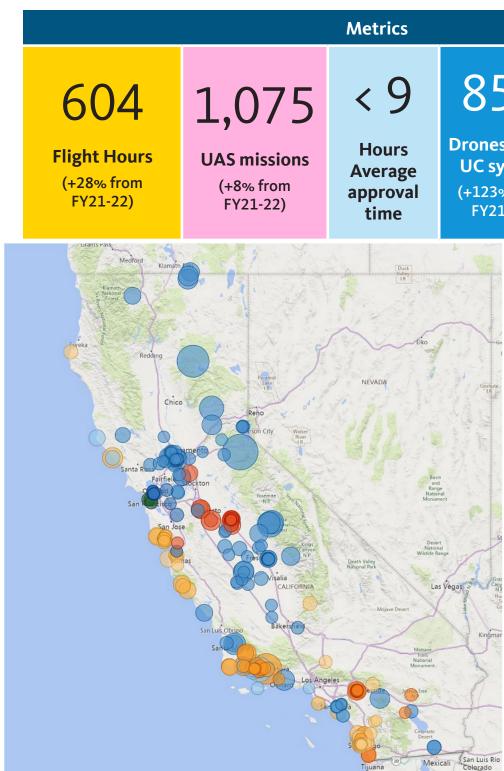
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## **Unmanned Aircraft System (UAS) Safety**

The Unmanned Aircraft System Safety CoE provides guidance and training in support of the safe operation of Unmanned Aircraft Systems, commonly known as drones. The CoE curates the UC Drones technology solution that was developed in partnership with Risk and Safety Solutions to manage flight requests and the reporting of flight data. The CoE also created the Presidential Policy that provides the framework and basis for the safe use of drones within the UC system and maintains the related policy guidance document.

### **Accomplishments**

- Developed a searchable table of commercially available drones enabling users to sort by size, country of origin, payload configurations along with regulatory categorizations.
- Developed new online training and guidance:
  - Updated cybersecurity guidance, addressing recent concerns over the use of drones manufactured in countries of concern.
  - Created a new training module for basic cinematography with drones which covers an introduction to aerial planning and common flight maneuvers used in drone cinematography.
  - Implemented a new page addressing compliance for Remote Identification regulations, including recommendations for retrofit modules and instructions for editing registration.
- Scheduled over 140 consultations on various UC dronerelated projects and proposals to help drone operators keep up with the latest drone regulations, including the concerns about the use of DJI drones with State or Federal funds, Remote Identification regulations and innovative new technologies.
- Reviewed and assessed 9 safety incidents and provided recommendations on improving safety practices.





853

**Drones in the UC system** (+123% from FY21-22)

UC Drones Knowledge **Portal Analytics** 

• ~2600+ visits

• 12.6k+ pageviews

### **UAS Flight Missions**

Мар Кеу			
	UCB		
	UCD		
	UCI		
	UCLA		
	UCM		
	UCR		
	UCSB		
	UCSC		
	UCSD		
	UCSF		

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### **Travel Registration and Insurance Services**

Travel Registration and Insurance Services (TRIS) expands access to travel insurance expertise and to information about the resources and services provided under the UCOP-contracted travel insurance policies. TRIS achieves this by developing tools, delivering training and answering questions from clients, including campus risk managers and leaders of international activities.

### Accomplishments

- Facilitated the addition of benefits to the UC travel insurance policies:
  - Increased personal deviation to 14 days on student policies
  - Added quarantine benefit to both student and employee policies
  - Added travel inconvenience benefits for domestic travel to employee policies
- Addressed over 100 queries on various UC travel insurance topics via Zoom, Teams, email and Slack to help campus risk management staff and international activity administrators understand policy benefits, rules and exclusions to better utilize tools and services provided by insurance partners.
- Identified and recommended enhancements to 9 campus and UCOP websites to clarify travel insurance and security services protocols and program details.
- Updated the UCOP Risk Services Travel web portal:
  - Posted updated policy summaries
  - Revised FAQs for Student and Employee policies
  - Developed "Guidelines for Submitting Claims"
  - Created new sidebar section "Risk Manager Resources & Forms"
  - Ensured PDFs were accessible
- Facilitated the implementation of a new travel assistance provider, AXA Assistance:
  - Developed protocols
  - Tracked issues
  - Suggested improvements

#### **Metrics**

### **Top 10 Registered International Travel Destinations\***



DESTINATION	REGISTERED TRAVELERS
1. United Kingdom	3,438
2. France	2,483
3. Germany	2,297
4. Spain	2,282
5. Italy	2,179

\*By number of registered travelers

DESTINATION	REGISTERED TRAVELERS
6. Canada	2,099
7. Mexico	1,556
8. Netherlands	1,322
9. South Korea	1,179
10. Japan	1,136

# **Centers of Excellence**

WELLNESS

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### WorkStrong Program

The WorkStrong program is designed to promote recovery from and prevent future workplace injures with the expertise and collaborative support of UC staff in wellness programs, occupational health and recreational services. Participation in WorkStrong will decrease the likelihood of repeat occupational injuries and result in improved worker health, fitness, and overall well-being. The WorkStrong CoE is a shared resource for all locations to support increased enrollment in local WorkStrong programs.

### Accomplishments

- Created action plans based on site visits to facilitate change and growth and developed strategies to solve barriers to participation.
- Reviewed funding needs and reconciliations with all campuses and health systems to ensure cost efficient administration.
- Performed 4 quarterly program goals check-ins with all campuses and health systems.
- Implemented an updated, increased reimbursement rate with a simplified billing process for WorkStrong medical clearances for all UC and contracted Occupational Health clinics.
- Collaborated with the UCOP Risk Services
   Communications Core Services Team to develop
   WorkStrong brochures (in English and Spanish) which
   conveyed key elements of the program to UC employees
   being treated by an Occupational Health physician

### Metrics

# 5

### Virtual site visits conducted:

- UC Davis Health (October 2022)
- UC Santa Barbara (November 2022)
- UC San Diego (December 2022)
- UC San Francisco (February 2023)
- UC Riverside (June 2023)



305 Enrollments







# **Shared Services**

### **ENVIRONMENTAL HEALTH & SAFETY (EH&S)**

Dive and Boat Safety Consortium

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### **Dive and Boat Safety Consortium**

The Dive and Boat Safety Consortium provides systemwide resources on behalf of UCOP and oversight, support and training for diving and boating operations at participating campuses. Consortium members include UC Berkeley, UC Irvine and UC Merced.

### Accomplishments

- Continued to support researchers, post-docs, graduate students and associated administrative staff at UC Berkeley, UC Irvine and UC Merced as activities resume post-pandemic.
- Supported dive and boat safety at UC Berkeley's Gump Station.
- Provided the required training (classroom, hands-on emergency skills, confined water and open water), planning and support for researchers conducting dive operations in the field.
- Participated in the American Academy of Underwater Sciences (AAUS), the Scientific Boating Safety Association (SBSA) and Diving Officers of California (DOCal) meetings.
- Worked with the AAUS to develop eLearning courses for Scientific Nitrox Divers and Lead Divers.
- Assisted with the development of best practices for snorkeling and free diving programs in conjunction with AAUS.

#### **Metrics**

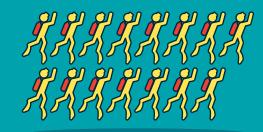
### Number of Dives: 178

Dive Purpose				
Purpose	Total Dive Time In Minutes	Number Of Dives Logged	Number Of Divers Logging Dives	
Scientific	3,734	134	11	
Training	1,379	44	8	

Dives By AAUS Depth Range					
Depth Range	Dives Logged	Number of Divers Logging Dives			
0-30 feet	60	8			
31-60 feet	89	15			
61-100 feet	28	8			

15

**Consortium Divers and Boaters** who conducted fieldwork







### **Dive plans were approved** with locations in:

- Monterey
- Santa Barbara
- San Diego
- Smithsonian Tropical Research Institute (STRI) in Panama
- Palau