Date: July 1, 2016

To: Gayle Hutchinson, President
    Cabinet

From: Lauri Evans, Chair
    Campus Health and Safety Committee

Subject: Campus Health and Safety Committee Annual Report 2015/16

Introduction

This report is submitted in accordance with Executive Memorandum 07-19 that directs the Campus President and Cabinet be provided an annual Campus Health and Safety Committee report. The Committee is an advisory committee on matters of health and safety, to increase health and safety awareness among all members of the Campus community, and aid in the implementation of health and safety provisions contained in the collective bargaining agreements. The Committee will make recommendations to assist the Department of Environmental Health and Safety in achieving the University's goal of creating a safe environment that is most conducive to the mission of the University.

Campus Health and Safety Committee

Fiscal Year 2015/16 the Campus Health and Safety Committee continued to meet on a quarterly basis. During this fiscal year, the Committee welcomes new Members:

- Jamie Clyde, Associated Students
- Stanley Crane, SETC
- Kevin Doyle, Director of Facilities Management and Services
- John Feeney, University Public Safety Committee
- Timothy Sistrunk, California Faculty Association.

Review of Accidents. The EHS Staff presented at each meeting a summary of quarterly reported accident/injuries during the fiscal year. The summary represented injuries by department; type of accident; and first aid, medical, or informational only. The type of injuries reported are injuries to eyes, lower back, hands, shoulders, knees, arm, ankles, and ergonomics. Injuries are caused by repetitive motion; improper lifting; slip, trips, and falls; debris, and minor lacerations.

Review of Accidents Stats. The Director of Environmental Health and Safety presented at each meeting a report on accident/injuries claims by Occupation; by Department; total hours worked, number of injuries per department; and injuries per 100,000 hours worked, and nature of injury.

Review of Inspections. The Emergency Preparedness & Occupational Safety Coordinator presented at each meeting a summary of quarterly reported building inspections and surveys done during this period. The reports covered Ayres Hall, BMU Market Place and Convention Center, Creekside, Farm, FMS, Glenn Hall, Langdon Hall, Laxson Auditorium, Meriam Library, O’Connell Tech Center, Performing Arts Center, Physical Science Building, Plumas Hall, Radio Tower at Mount Hough,
Siskiyou Hall, Butte and Holt Stations, Safe Place, Shurmer Gym, Warehouse (Surplus), WREC, UHFS Maintenance Shop, all University Farm Buildings.

Among the findings were the need for the removal of a herbicide container from the Warehouse; maintenance of climbing walls; permanent power supply; miscellaneous electrical repairs, cover plates, box covers, miscellaneous removal of extension cords, daisy chaining, housekeeping, walkways blocked by equipment, improper lockout/tagout, structural repairs, improper storage of universal wastes; and various safety issues noticed, and discussed with occupants, during hazardous waste pickups.

- Installation of New Cardiac Science Powerheart G5 Bilingual AED Units. The Director reported that EHS received funding from the Vice-President of Business and Finance to purchase seven (7) bilingual G5 Cardiac Science Powerheart AED units. The G5 has a touch button to change the voice prompts to one of the dual languages (English or Spanish) without restarting or delaying the rescue.

The new AED units will be installed at Ayres Hall, Colusa Hall, Glenn Hall, Modoc Hall, O’Connell Technology Center; Physical Science Building, and the new Arts and Humanities building.

Three (3) additional bilingual G5 Cardiac Science Powerheart AED units have been installed at 25 and 35 Main Street (lobbies) and Gateway Science Museum (office). These units were funded by the individual departments; however, they are inspected and maintained by EHS.

There are currently:
- 29 Cardiac Science PowerHeart G3 Plus Automatic Defibrillators
- 11 Cardiac Science Powerheart G5 Plus Automatic Defibrillators
- (1) Zoll AED Plus (Version 6.24.)

The Department of Environmental Health and Safety is responsible for ensuring that each defibrillator is maintained; maintains records of pad/electrode and battery replacement dates; annual and monthly inspections are performed and documented by EHS.

The AED location map and Program information are on the Emergency Preparation website.

- Agricultural Teaching and Research Center. The Director reported that on February 27, 2016, at the University Farm-Swine Unit, a 100 watt heat lamp came into contact with PVC panels that are used in the farrowing crates where sows and piglets are kept and sparked a fire. There was damages to the panels (burnt), ceiling, heating pad under piglets, and a plastic covering on the steel grates. Two sows passed due to smoke inhalation.

The incident was reported to the Office of the State Fire Marshal and City of Chico Fire Department. The incident resulted in an inspection of all University Farm buildings by the Office of the State Fire Marshal.

- Tehama Hall, Room 365. The Director reported that in June 2015 a night custodian entered Tehama Hall, Room 365 to find that a lithium battery pack had exploded inside the office. The findings were reported to University Police and Chico Fire Department.

Chico Fire used thermal imagining and stated the battery and all components were “cold” indicating the incident had occurred in the past. The fire alarm did not activate as there is no smoke detector in the room.

Chico Fire Inspectors conducted an investigation on June 8, 2015, finding the battery appears to have failed for an unknown cause resulting in a runaway thermal reaction. Multiple pieces of the battery pack were located throughout the office and carbon residue was visible throughout the office. Fire damage was limited to the desk, mini blinds, and one chair.
Per the occupant the battery packs had been in the office since the week of May 18, 2015, and it is unknown if the battery pack had been dropped or was damaged.

The occupants of the room were advised of the incident. A professional cleaning company was hired to clean the entire office due to potential exposure to corrosive residue from the battery.

- Discussion of High Visibility Clothing. The Emergency Preparedness & Occupational Safety Coordinator reported on high visibility clothing is defined by the amount of reflective material and garment design to enhance a workers visibility in a lower light situation. There are three (3) classes of garments as most appropriate, depending on the level of risk in the outdoor work environment.

ANSI Class 1 is used by workers who are well separated from traffic and working in areas where vehicle and/or equipment speeds do not exceed 25 mph. Workers who can benefit from this class of garment include those directing parking operations, retrieving shopping carts from parking areas, maintaining sidewalks, making deliveries from vehicles, and working in warehouses where motorized equipment is present.

ANSI Class 2 is for workers who are on or near roadways, are exposed to traffic traveling at speeds in excess of 25 mph, and are in situations where complex visual backgrounds may be present. Examples of workers benefiting from this class of garments are roadway construction workers, utility workers, survey crews, crossing guards, tollgate personnel, airport baggage handlers, first responders, and law enforcement personnel.

ANSI Class 3 are for workers in the highest-risk situations, who need to be visible through a full range of body motions from a minimum distance of 1,280 feet, and who are exposed to traffic traveling at significantly high speeds. Workers who can benefit from this class of garments include highway maintenance and construction crews, utility workers, tow truck operators, survey crews, flaggers, and emergency response personnel.

- Discussion of Hoverboards. The Emergency Preparedness & Occupational Safety Coordinator reported that self-balancing scooters, hoverboards, currently do not have a UL or comparable safety listing that attests to their safety. Recent fire incidents related to hoverboards have resulted in the Office of the State Fire Marshal releasing an information bulletin specific to hoverboard safety.

University Housing and Food Services has banned hoverboards from all residence halls and Sutter Dining.

- Discussion Selection and Use of Power Strips on Campus. The Director reported that within a 12-month period, campus avoided two potentially catastrophic fires that could have been started by inappropriate use of extension cords. In both cases, the University was fortunate that the failed extension cords were noticed before damage to the facility occurred. Extension cords are only to be used on a temporary basis. Both the Fire Code and the Electrical Code allow for extension cords in specific circumstances:

Extension cords, of proper size and according to their use, are permitted under the following conditions:

- For temporary use only, not to exceed 90 days.
- On non-heat producing devices (i.e. radios, computers, answering machines, etc.).
- Under specific and written authorization from EHS (for longer term use).
- Extension cords exist in one continuous length. Cords must not be connected (daisy chained) or spliced together.
• As temporary wiring for holiday displays, artwork, or vendors at special events provided they meet the requirements above.
• A multi-plug extension cord that incorporates a surge protector and circuit breaker. This form of extension cord is recommended.

Extension cords are not permitted under the following conditions:
• Used as permanent wiring.
• For use on heat producing or high voltage devices such as heaters, coffee pots, high wattage lamps, refrigerators, microwave ovens, etc.
• Through doors, under doors, under carpets or rugs.
• A tripping hazard for normal foot traffic or emergency evacuation is created.
• Fire barriers or fire rated walls are breached to run the wiring unless the hole is properly fire-stopped and the wire properly enclosed in the appropriate conduit.
• The cord shows sign of wear, defects, bulging, exposed wire, or other damage.
• Located in corrosive areas or near any substance which would deteriorate the extension cord.

As a result of the two (2) incidents, EHS sent an “All Announce” message to the Campus community describing the events and reviewing proper use.

❖ Discussion on Heat Illness – Who and Why. The Emergency Preparedness & Occupational Safety Coordinator reported on heat stress from exertion or hot environments places workers at risk for heat illness. Heat illness is preventable by taking steps to be adequately hydrated and to rest in a cool areas.

Indications of heat exhaustion, heat cramps, heat stroke:
• Rapid heart beat
• Heavy sweating
• Weakness or fatigue
• Dizziness
• Nausea, vomiting
• Elevated body temperature

Protect yourself by avoiding exertion, extreme heat, sun exposure, and high humidity:
• Wear light colored, loose fitting, breathable clothing.
• Gradually build up to heavy work – acclimation is very important.
• Schedule heavy work during coolest parts of the day.
• Drink clean, cool water frequently. Drink enough water that you never become thirsty.
• Never ignore systems and use first aid treatments when necessary. Immediately report all heat illness to your supervisor.

❖ Discussion on NFPA 70E Electrical Safe Work Practices Training. The Emergency Preparedness & Occupational Safety Coordinator reported that on February 18th and 19, 2016, Lewellyn Technology will be on-site to provide NFPA 70E Electrical Safe Work Practices training to staff on safe work practices, electrical hazards, proper electrical work practices and procedures, and safe installation of electrical equipment.

❖ Discussion on Fall Protection Safety Equipment. The Emergency Preparedness & Occupational Safety Coordinator reported on October 27, 2015, Miller Dynamic Demo mobile showroom was at the FMS Yard to demonstrate on-site fall protection demos and awareness training, head-to-toe personal protective equipment, and display safety products.

❖ Lab/Shop Inspections. The Director reported during the summer months EHS will be inspecting labs and shops in the academic areas. Environmental Health and Safety has been meeting with Steve
Robinow, Associate Dean and Randy Miller, Chair, in the College of Natural Sciences, regarding the inspection of labs and develop safe working practices.

- **Staff Safety Award.** The University awards a Staff Safety Award to a staff member or employee group who goes beyond their regular duties in promoting safety and making the work place safer. This could be a single act of safety or a continuous contribution to a safe work environment.

At the beginning of each calendar year the Department of Environmental Health and Safety announces to the Campus Community that nominations are being accepted for the Staff Safety Award.

The Department of Environmental Health and Safety received two (2) nominations for the 2015 Staff Safety Award. The nominations are for Stanley Crane, Facilities Management and Services and Don Converse, Creative Media Technology.

It was by majority vote of the Committee members to award Stanley Crane the 2015 Staff Safety Award.

As the Facilities Worker II for Facility Management and Services, Mr. Crane has been relentless in maintaining safety practices and procedures for the FMS Trades Workers Group.

- Mr. Crane conducts weekly safety meetings for over 20 Trades Workers to discuss various topics such as the use of heavy equipment, heat illness and prevention, construction safety, personal protective clothing, fall protection, forklift training, fire extinguisher training, AED training, and driving safety on Campus.
- Mr. Crane encourages the Trade Workers to participate in discussions, sharing personal experiences on safety and how to avoid injuries. Mr. Crane researches and coordinates all topics presented, invites guest speakers, and presents safety videos, and best of all snacks.
- Mr. Crane’s professional and dedicated approach to education, prevention, and awareness for employee safety, his willingness to ask for ideas and suggestions on safety topics, has brought a new interest and approach to safety on Campus.

Environmental Health and Safety will be submitting a nomination for Mr. Crane to the 36th Annual Governor’s Employee Safety Award (GESA). The deadline for submitting nominations is September 1, 2016.

- **Discussion on Electronic Displays in Lobbies.** The Director reported there are digital/electronic displays located in the lobbies of Student Services Center, Wildcat Recreation Center, Meriam Library, and Butte, Glenn, Yolo Halls, to provide college and department information.

The Committee discussed the possibility of the displays being used to provide information on Emergency Operation information. However, the displays are not centralized and ownership/management are controlled by various staff and departments. The decentralized nature of these devices do not lend them to be used for emergency notification purposes.

- **Discussion on “September is Campus Fire Safety Month.”** The Emergency Preparedness & Occupational Safety Coordinator reported on a nationwide effort to raise fire and life safety awareness on Campuses, September was designated as “Campus Fire Safety Month.” August and September are typically the worst time of year for fatal campus-related housing fires. Unfortunately, some students do not realize how quickly a fire can occur, and most have not received fire safety education.

Campus Fire Safety Month was established to help students realize they are not invincible, that fires do happen in Campus-related settings and that students should take steps to protect themselves no matter where they live.
The National Fire Protection Association, The Center for Campus Fire Safety; the University of New Haven Fire Science Club, and Domino’s Pizza teamed up to host a national campaign that raises awareness of fire safety on Campuses.

Part of their campaign is a contest which encourages students to put fire safety first, and provides a host of student, parent and fire safety educator resources that focus on the dangers of candles and unattended cooking, in addition to highlighting the importance of having smoke alarms, evacuation plans and more. Resources have been designed for sharing via social media, websites, and for posting in dorms and on common area bulletin boards include:

- Fire safety questions to ask landlords and school officials
- Videos
- Checklists
- Tips Sheets
- Infographics and flyers

The Contest is held from September 1st to September 25th on the Campus Fire Safety for Students facebook and targets students currently enrolled. Students who complete the first tier will be entered into a sweepstakes where two winners will be randomly selected to win a Domino’s-sponsored pizza party for 50 of their friends. Students can also submit a 200-word paragraph about the steps they will take to help keep themselves and their peers safer from fire. One winner will be chosen from the second-tier of the Contest and is eligible to win an iPad Mini 3.

▶ Discussion on CPR Training – Staff Development. The Emergency Preparedness & Occupational Safety Coordinator reported The University Staff Development Program (USDP) Committee sponsored a Heartsaver CPR AED training in August and September 2015 to the Campus community. The training was taught by First Responder EMS who are an approved American Heart Association Training Center.

Heartsaver CPR AED covers the American Heart Association (AHA) CPR for infant, child, and adult patients - with practice using a barrier device. Methods for clearing a foreign body airway obstruction in infants, children and adults are reviewed, as well as, training on how to use an automated external defibrillator (AED).

The cost of the three (3) training sessions was covered by USDP and was open on a first come first serve bases. The training was 3.5 hours and if participants passed the required assessment verifying they have acquired the necessary skills and knowledge to perform CPR and use an AED they will obtain CPR certification upon completion.