



### **Course Description:**

This joint symposium presented by UC Berkeley and UC Davis will explore the impacts of new policies on occupational health.

Day one of the symposium will discuss the making, implementation, and assessment of policies designed to improve worker health. Speakers will present information on the process by which a policy or standard is created and why. The challenges and successes with implementing and assessing new standards in different industries will be discussed. Recent and emerging standards in heat illness, hotel housekeeping, workplace violence, lead, and PELs will be addressed in detail, along with a discussion of ongoing implementation and assessment strategies. Health policy experts will discuss how the impact of these policies might be assessed over time.

Day two of the symposium will explore current topics in occupational and environmental medicine. The Center for Occupational and Environmental Health at UC Davis offers this annual symposium to clinicians as a part of its mission to disseminate new knowledge related to occupational health and policy. This program is designed to improve provider competence in the prevention, diagnosis, and treatment of worker-related injuries with the intention of improving health outcomes for California workers.

This event is made possible through the joint providership of The Center for Occupational and Environmental Health UC Berkeley, and The Center for Occupational and Environmental Health UC Davis.

### **Audience:**

Day one of the symposium is intended for occupational and environmental health and safety professionals including registered environmental health specialists, industrial hygienists, certified safety professionals, occupational medicine physicians and mid-level practitioners, occupational health nurses, and other allied health professionals.

Day two of the symposium is intended for clinicians including MD, DO, Nurse Practitioners, Physician Assistants, Registered Nurses, and allied health professionals including those in the occupational medicine, family medicine, internal medicine, and emergency medicine disciplines.

## **Learning Objectives:**

### **Friday, May 4, 2018**

At the completion of this activity, the learner will be able to:

- Discuss the importance and process of developing new Occupational Health Standards in California
- Describe how the health, safety, and financial impact of Occupational Health Standards are assessed over time
- Identify the core content and requirements contained in multiple Occupational Health Standards in California
- Apply knowledge about recent occupational health standards to improve compliance in the workplace
- Apply knowledge of the policy making process to future occupational health challenges

### **Saturday, May 5, 2018**

At the completion of this activity, the learner will be able to:

- Define, diagnose, and treat acute concussion, persistent concussive symptoms, and post-concussive syndrome
- Review the known health effects of wildfire smoke exposure, health effects currently under study, and resources for OEM clinicians who treat patients with smoke exposure
- Describe Cal OSHA's newest regulations, recently identified health hazards and the workplaces affected by them, and be able to develop specific Medical Surveillance recommendations for those regulations
- Identify emerging health hazards for cannabis workers, and be able to provide appropriate Medical Surveillance and/or treatment for cannabis workers
- Discuss new remote monitoring technologies that apply to OEM, and how to access and apply these new technologies as appropriate
- Identify signs and symptoms necessitating urgent orthopedic referral, and the most appropriate imaging study for the shoulder injury
- Utilize recommendations to facilitate quality improvement in their own practices, champion the value of OEM to their organizations, and to apply ACOEM's specific recommendations in assessing patient satisfaction from the ACOEM position statement
- Discuss the timeline and type of documentation required for commercial drivers with insulin-dependent diabetes, and determine if the data submitted by the drivers is adequate for clearance
- Review the structure of MTUS/ACOEM Guidelines, utilize practical tips on how to apply the MTUS treatment guidelines, and be able to utilize a different resource when your request is not included in ACOEM Guidelines

**Course Schedule:**

**Friday, May 4, 2018**

**8:00 AM - 8:30 AM:** *Registration, Continental Breakfast*

**A Case for Occupational Health Policies in California**

**8:30 AM - 9:30 AM:** *The Role of Policy in Keeping California Workers Safe with John Balmes, MD, Director, COEH, UC Berkeley*

**9:30 AM - 10:00 AM:** *Risk Factors for Heat Illness Relevant to Regulatory Approaches among CA Agricultural Workers with Marc Schenker, MD, MPH, Emeritus Distinguished Professor and Founding Director of COEH, UC Davis*

The frequency of heat illness among agricultural workers is increasing. This talk will focus on research addressing risk factors for heat illness among California agricultural workers, with particular attention to whether factors are remediable. The data presented is based on studies conducted on hundreds of agricultural workers using measures of core body temperature, metabolic work load, and ambient conditions. A major focus will be on the contribution of metabolic work load and compensation systems on risk of heat illness. Gender related differences in work practices and hydration will also be addressed.

**Learning Objectives:**

- Discuss changes in climate relevant to risk of heat illness among agricultural workers
- Review the critical contribution of metabolic work load to risk of heat illness
- Describe the contribution of different compensation systems to metabolic work load and risk of heat illness
- Discuss gender differences in work load and hydration among California agricultural workers

**10:00 AM - 10:15 AM:** *Break*

**10:15 AM - 10:45 AM:** *California's Heat Campaign: Using Social Media to Improve Working Conditions with Suzanne Teran, MPH, Associate Director, Labor Occupational Health Program (LOHP), UC Berkeley*

Although California's outdoor heat standard was promulgated in 2006, by 2009 there were concern that workers, especially those who were not English-speaking, were not aware of their rights, and that employers were not abiding by the requirements. California's legislature mandated that the state Department of Industrial Relations develop an outreach and education effort, and LOHP coordinated the development of a campaign, with a focus on social marketing, to reach non-English speaking workers, their employers, and community organizations. This

presentation will describe the objectives, scope, messages and materials of the campaign, as well as the evaluation results that looked at awareness and behavior change. The campaign was implemented in collaboration with Underground Advertising, MOB Media, the UC Davis Western Center for Agricultural Safety and Health, and UCLA's Labor Occupational Safety and Health Program.

Learning Objectives:

- Describe how social marketing can be used to improve working conditions and promote preventative behaviors that reduce job-related injury and illness
- Describe the objectives, scope, and materials from CA's heat illness prevention campaign
- Discuss the role of worker and employer education when a new standard or policy has been adopted

**10:45 AM - 11:15 AM:** *Berkeley's Hot Buses and the Evolution of Heat Regulation with David Hornung, MPH, CIH, Heat and Agriculture Program Coordinator, Cal/OSHA*

It's been 13 years since Cal/OSHA developed an emergency regulation to protect outdoor workers from the hazard of heat. The regulation has been revised twice, once in 2010 and again in 2015, to address perceived gaps in the regulation. In August 2018, the Court of Appeals issued a decision affecting how Cal/OSHA can enforce the regulation. This presentation will give a quick history of the regulation, discuss the outreach, enforcement, and advertising efforts to ensure workers are protected, and lastly, talk about AC Transit buses and how the standard protect those drivers.

Learning Objectives:

- Review how the Heat Illness Prevention regulation has changed since it was first created in 2005
- Discuss how court cases effect the interpretation of the regulation, with a focus on the AC Transit case
- Describe the impact of the standard through injury tracking, worker awareness, and Cal/OSHA statistics

**11:15 AM - 12:00 PM:** *Panel Discussion on the Heat Illness Prevention Standard with Marc Schenker; Suzanne Teran; David Hornung; and Anne Katten, Pesticide and Work Safety Project Director, California Rural Legal Assistance Foundation*

**12:00 PM - 1:00 PM:** *Lunch (provided)*

## **New Standards Unique to California**

**1:00 PM - 1:30 PM:** *Workplace Violence with Robert Harrison, MD, MPH, Clinical Professor of Medicine, UCSF; Public Health Medical Officer, CDPH*

Health care workers are at increased risk for workplace violence (WPV). The epidemiology, risk factors and evidence for effective interventions will be presented. The components of the recent California WPV standard will be described.

### **Learning Objectives:**

- Describe the risk factors for WPV in health care workers
- Identify the evidence for effective interventions in reducing the risk of WPV in health care workers
- Review the scope and application of the California WPV standard

**1:30 PM - 2:00 PM:** *From Participatory Research to the New California Hotel Housekeeping Musculoskeletal Injury Prevention Program (MIPP) with Niklas Krause, MD, PhD, MPH, Director, Southern California Education and Research Center, UCLA*

The presentation describes the rationale for the new MIPP standard and the contributions of routine injury surveillance and of targeted community-based participatory research in its development and implementation throughout the regulatory process. Challenges and opportunities of the participatory approach are being discussed.

### **Learning Objectives:**

- Recognize the unique features of the new California Hotel Housekeeping Musculoskeletal Injury Prevention Program (MIPP) standard and how they differ from existing regulations such as the Injury and Illness Prevention Program (IIPP).
- Identify occupational hazards of hotel housekeeping work that the new MIPP standard aims to address.
- Understand how injury surveillance data, community-based participatory research, and the collaboration of academic and non-academic stakeholders contribute to the development and implementation of the new MIPP standard.

**2:00 PM - 2:45 PM:** *Panel Discussion on New Standards Unique to California with Robert Harrison; Niklas Krause; Purva Grover, Senior Occupational Health Specialist, UNITE HERE International Union's Worker Safety and Health Program; Jane Thomason, Industrial Hygienist, California Nurses Association / National Nurses United; and Laura Stock, Director, Labor Occupational Health Program (LOHP), UC Berkeley*

**2:45 PM - 3:00 PM:** *Break*

## Emerging Standards in California

**3:00 PM - 3:30 PM:** *Forward Motion on Updating the Lead Standards with Barbara Materna, PhD, CIH, Chief, Occupational Health Branch, California Department of Public Health*

The current regulatory standards for occupational exposure to lead, in California and across the U.S., are based on toxicity information from the 1970s and widely recognized as needing revision. This presentation will cover rulemaking efforts in three states to improve protections for workers in lead industries. It will also describe the role of public health surveillance in describing who is affected by workplace lead poisoning and where increased prevention measures are needed.

### Learning Objectives:

- Identify three state OSHA programs that have completed or initiated efforts to revise their lead standards.
- Contrast the role of the CA Dept of Public Health in occupational lead poisoning surveillance and prevention to Cal/OSHA's role in developing and enforcing the lead standards.
- Determine how or if they could help California adopt or implement new lead regulations.

**3:30 PM - 4:00 PM:** *Cal OSHA PEL Update with Chris Kirkham, MPH, CIH, CSP, Principal Safety Engineer, Cal/OSHA; and Garrett Keating, PhD, Toxicologist, Chair Health Effects Health Advisory Committee, Cal/OSHA*

Presenters will explain the current process Cal/OSHA uses to propose Occupational Exposure Limits (OELs) for airborne contaminants.

### Learning Objectives:

- Review what a PEL is, as well as other OELs
- Describe how core disciplines (toxicology, epidemiology, industrial hygiene, and occupational medicine) are utilized in reviewing PELs
- Discuss the HEAC process of health effects and workplace feasibility assessment

**4:00 PM - 4:30 PM:** *Panel Discussion on Emerging Standards with Barbara Materna, Chris Kirkham, and Garrett Keating*

## **Quantifying the Impact of New Policies**

**4:30 PM - 5:00 PM:** *Policy Analysis: An Economic Perspective with Jisung Park, PhD, Assistant Professor, UCLA*

This session we will explore some of the typical challenges associated with evaluating the effectiveness of new policies, as well as some possible ways to overcome them. We will use the California Outdoor Worker Heat-Illness Prevention standard as an example to highlight some of the important dimensions of policy evaluation.

### **Learning Objectives:**

- Review basic conceptual frameworks for cost-benefit analysis
- Describe challenges associated with comprehensive accounting of a policy's benefits and costs (e.g. monetizing health benefits, including hidden costs)
- Discuss common pitfalls in drawing conclusions from historical data, especially when policy intervention was not randomized.

**COEH Spring Semester Get Together: 5:00 PM - 7:00 PM**



## **Saturday, May 5, 2018**

**7:30 AM - 8:00 AM:** *Registration, Continental Breakfast*

**8:00 AM - 9:00 AM:** *Concussions: Evidence-based, Novel Treatments for TBI with Vernon Williams, MD, Director, Center for Sports Neurology and Pain Medicine Cedars-Sinai/Kerlan-Jobe Institute*

**9:00 AM - 9:45 AM:** *The New Generation of Wildfires and their Impacts on Health with Irva Hertz-Picciotto, MPH, PhD, Professor, UC Davis*

**9:45 AM - 10:00 AM:** *Break*

**10:00 AM - 10:45 AM:** *Occupational Health Hazards: The Old and the Newly Regulated with Nicholas Gleiter, CIH, Area Manager, State of California, Division of Occupational Safety and Health*

**10:45 AM - 11:30 AM:** *Cannabis Workers: Identifying Health Risks with Marc Schenker, MD, MPH, Emeritus Distinguished Professor and Founding Director of COEH, UC Davis*

**11:30 AM - 12:15 PM:** *Technology: Our Friend or Foe in Worker's Compensation with Yi (Krystal) Lin, MD, MSPH, Medical Director, Berkshire Hathaway Homestate Companies*

**12:15 PM - 1:00 PM:** *Lunch (provided)*

**1:00 PM - 1:45 PM:** *What Not To Miss: Identifying and Treating Work-Related Shoulder Injuries with Kan Gill, MD, Orthopaedic Surgeon*

**1:45 PM - 2:30 PM:** *Earning High Patient Satisfaction Scores with David Caretto, MD, MPH, Occupational Medicine Physician, Mercy Medical Group Sacramento, Dignity Health*

**2:30 PM - 2:45 PM:** *Break*

**2:45 PM - 3:30 PM:** *Driving Me Crazy: Commercial Driver Case Studies Group Exercise with Sarah Mansell, MD, Occupational Medicine Physician, Kaiser*

**3:30 PM - 4:15 PM:** *MTUS Formulary with Roman Kownacki, MD, MPH, Chief, Occupational Health, Kaiser Permanente Richmond, The Permanente Medical Group*

**4:15 PM - 4:45 PM:** *Key Takeaways: Review & Maintenance of Certification Quiz with Sheri Belafsky, MD, MS, FACOEM, Director, Medical Surveillance Program, COEH, UC Davis*



**Accreditation:**

**Friday, January 25, 2019**

Provider approved by the California Board of Registered Nursing, Provider Number 12983, for 6.5 contact hours.

This course has been approved for 6.5 contact hours, REHS. The Center for Occupational and Environmental Health (COEH) UC Berkeley is a Registered Environmental Health Specialist (REHS) Program Continuing Education Accreditation Agency approved by the California Department of Public Health.

ABIH® Diplomates may be eligible to earn up to 6.5 of contact hours for this event. Visit <http://www.abih.org/maintain-certification/cm-credit-education-events> for more information.

Certified Safety Professionals may be eligible to earn up to 6.5 contact hours for this event. Visit <http://www.bccsp.org/Certifications/Recertification> for more information.

**Saturday, January 26, 2019**

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Institute for Medical Quality / California Medical Association (IMQ/CMA) through the joint providership of The Center for Occupational and Environmental Health UC Berkeley, and The Center for Occupational and Environmental Health UC Davis. The Center for Occupational and Environmental Health UC Berkeley is accredited by the IMQ/CMA to provide continuing medical education for physicians.

The Center for Occupational and Environmental Health designates this live activity for a maximum of 7.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The American Board of Preventative Medicine (ABPM) has approved this activity for a maximum of 7.5 LLCA Credits towards ABPM MOC PART II requirements.

This activity has been accredited by the California Division of Workers' Compensation for Qualified Medical Evaluator continuing education. Physicians may report up to 7.5 hours of credit for QME reappointment. Provider No. 420.

Provider approved by the California Board of Registered Nursing, Provider Number 12983, for 7.5 contact hours.