



# Work and Environmental Respiratory Disease *and* Updates in Occupational and Environmental Medicine



*Construction - Saint Cloud* mural painted  
by David Granahan © 1937 - St. Cloud, MN

THURSDAY - SATURDAY

## March 7-9, 2024

San Francisco Marriott Fisherman's Wharf  
San Francisco, CA

UCSF

**COURSE CHAIRS**

Paul D. Blanc, MD MSPH  
Samuel Goldman, MD MPH  
Robert Kosnik, MD DIH  
Rahmat Balogun, DO MPH  
Stephanie Holm, MD MPH PhD

[cme.ucsf.edu](http://cme.ucsf.edu)

Additional Event Wednesday, March 6th

Evening Scientific Poster Session and Opening Reception - Call for Abstracts to Follow

# Work and Environmental Respiratory Disease *and* Updates in Occupational and Environmental Medicine

March 7-9, 2024 and March 6, 2024 Evening Poster Session

These courses are presented by the Division of Occupational, Environmental, and Climate Medicine in the Department of Medicine at the University of California San Francisco. They provide targeted reviews of one topic area along with a broader update of current topics in occupational and environmental health. The curriculum is designed for occupational and environmental health professionals, including occupational physicians and nurses, and industrial hygienists. It also meets the needs of primary care providers and others engaged in practice and research, including physicians (family medicine practitioners, internists, emergency medicine specialists), advanced practice nurses and other nursing professionals, and physician assistants. Policy makers and medical-legal practitioners also benefit from the curriculum offered. **The first day** of the 2024 course, **Work and Environmental Respiratory Disease**, addresses subject areas that underscore the interrelationships and linkages between work and the environment with respiratory disease. Topic examples include a Historical Perspective on the Lung, the Occupational Burden of Non-Malignant Respiratory Disease, Pneumoconiosis, Hypersensitivity Pneumonitis, Idiopathic Pulmonary Fibrosis, and Climate Change and Respiratory Health looking at Heat, Wildfires, Air Pollution and more. A poster session the evening before the first conference day will supplement this content, including case reports and research data. **The second day** and **final half-day** of the course will cover a multi-topic theme: **Updates in Occupational and Environmental Medicine**.

## TARGET AUDIENCE

This course is designed to provide the experienced clinician with a review of the epidemiology, and the evaluation of occupational and environmental diseases and injuries. The curriculum will also include a substantial component focused on issues specifically pertinent to occupationally and environmentally-related disease. Most attendees will be occupational physicians, but some are specialists in related fields who will profit by an in-depth presentation of occupational and environmental medicine topics. Thus, although targeted for physicians, some non-physicians, in particular graduate nurses, usually attend and benefit from the curriculum. Some attendees are from developing countries where physicians are not available to provide consultation to industry for the development of health and safety programs; others have been U.S. nurse practitioners who play a pivotal role in occupational health.

## OBJECTIVES

Attendees completing this course will be able to:

- Clarify their role in addressing occupational and environmental health topics in clinical practice;
- Adopt new medical knowledge into preventive activities addressing occupational and environmental risk factors, both established and newer;
- Improve their evaluation of scientific data in the field of occupational and environmental health;
- Expand the differential diagnosis to incorporate a wider range of environmental and occupational factors in various disease processes;
- Better apply appropriate diagnostic methods and treatment options for selected occupational and environmental conditions.

## ACCREDITATION

In support of improving patient care, University of California, San Francisco is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team..

UCSF designates this live activity for a maximum of **17.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

This CME activity meets the requirements under California Assembly Bill 1195, continuing education and cultural and linguistic competency.

**Geriatric Medicine:** The approved credits shown above include **1.5** geriatric credits toward meeting the requirement under California Assembly Bill 1820, Geriatric Medicine.

**Pain Medicine:** The approved credits shown above include **2.5** Pain Credits towards meeting the requirement under California Assembly Bill 487, Pain Management and Care for the Terminally Ill.

**Trauma:** The approved credits shown above include **3.25** credits toward satisfying the American College of Surgeons Committee on Trauma requirement for trauma-related continuing medical education.

**Nurses:** For the purpose of recertification, the American Nurses Credentialing Center accepts **AMA PRA Category 1 Credit™** issued by organizations accredited by the ACCME.

**Physician Assistants:** AAPA accepts category 1 credit from AOACCME, Prescribed credit from AAFP, and **AMA PRA Category 1 Credit™** from organizations accredited by the ACCME.

**Pharmacy:** The California Board of Pharmacy accepts as continuing professional education those courses that meet the standard of relevance to pharmacy practice and have been approved for **AMA PRA Category 1 Credit™**.

**Family Physicians:** Application for CME credit has been filed with the American Academy of Family Physicians. **Determination of credit is pending.**

**California Division of Workers Compensation – Medical Unit (QME Credit):** This course has been reviewed and approved for **17.75** hours of credit.

## WEDNESDAY, MARCH 6, 2024 • Pre-Conference

6:30-8:30 pm *Evening Poster Session and Opening Reception*

## THURSDAY, MARCH 7, 2024

### DAY 1 • WORK AND ENVIRONMENTAL RESPIRATORY DISEASE

7:00 am		<i>Registration and Continental Breakfast</i>	
7:45		<b>Introductions</b>	<i>Course Leaders</i>
8:00		<b>The Lungs: A Historical Perspective</b>	Paul Blanc, MD MSPH
8:50		<b>The Occupational Burden of Non-Malignant Respiratory Disease</b>	Carrie Redlich, MD MSPH
9:40		<i>Break</i>	
10:10	<b>P</b>	<b>Occupational and Environmental Cancer of the Thorax and Nasal System: What Have We Learned?</b>	Carl Reynolds, MD
11:00		<b>Pneumoconiosis: The More Things Change....</b>	Robert Cohen, MD
11:50		<i>Lunch Break</i>	
1:10 pm		<b>KEYNOTE: Hypersensitivity Pneumonitis: An Unfolding Story</b>	Hayley Barnes, MD
2:10	<b>G</b>	<b>Infectious Pneumonia as an Occupational Disease</b>	Kjell Torén, MD
3:00		<i>Break</i>	
3:30		<b>Idiopathic Pulmonary Fibrosis and other Rare Fibrotic Lung Diseases of Unknown Cause – Not so Idiopathic After All</b>	Shephali Gandhi, MD MPH
4:20	<b>T</b>	<b>Climate Change and Respiratory Health: Heat, Wildfires, Air Pollution, and More</b>	John Balmes, MD
5:10		<b>Closing Panel: Work and Environmental Respiratory Disease – What is the State of the Art?</b>	<i>Facilitator:</i> Paul Blanc, MD MSPH <i>Discussants:</i> Carrie Redlich, John Balmes, Kjell Torén, Hayley Barnes
6:00 pm		<i>Adjourn</i>	

## FRIDAY, MARCH 8, 2024

### DAY 2 • UPDATES IN OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

7:00 am		<i>Registration and Continental Breakfast</i>	
7:50		<b>Introductions</b>	<i>Course Leaders</i>
8:10		<b>The Intersection of Pediatrics and Occupational and Environmental Health</b>	Stephanie Holm, MD PhD MPH
9:00		<b>Rhinitis and Sinusitis in the Workplace: What Does the Nose Really Know?</b>	Dennis Shusterman, MD MPH
9:50		<i>Break</i>	
10:20	<b>G</b>	<b>Ambient and Workplace Air Pollution and the Heart</b>	Joel Kauffman, MD MPH
11:10	<b>T</b>	<b>Radiation Effects Across the Spectrum</b>	Rajan Puri, MD MPH
12:00 pm		<i>Lunch</i>	
1:30		<b>KEYNOTE: Carbon Dioxide: Should We Rethink its Toxicity?</b>	Howard M. Kipen, MD MPH
2:20	<b>TP</b>	<b>Taking a Military 'Occupational' and Environmental History</b>	Ware Kuschner, MD
3:10		<i>Break</i>	
3:40		<b>Occupational COVID in Non-Clinical Workers – Lessons For The Next Pandemic?</b>	Amy Heinzerling, MD MPH
4:30		<b>OEM Published Research: The Year in Review</b>	Samuel Goldman, MD MPH
5:15 pm		<i>Adjourn</i>	

## SATURDAY, MARCH 9, 2024

### DAY 3 • UPDATES IN OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

7:15 am		<i>Registration and Continental Breakfast</i>	
8:15		<b>Introductions</b>	<i>Course Leaders</i>
8:30	<b>T</b>	<b>What Sports Medicine Can Teach Us about Occupational Injury</b>	Anthony Lopez, DO MPH
9:20		<b>Metals Toxicity: It's More than Lead, Mercury, and Arsenic</b>	Stephen Petrou, MD John Keller, MD
10:10		<i>Coffee Break</i>	
10:30		<b>Occupational Hepatitis: Chemical and Other Agents</b>	Robert Harrison, MD MPH
11:20		<b>Closing Panel: Occupational and Environmental Health – Where Do We Go from Here?</b>	<i>Facilitator:</i> Sam Goldman; <i>Discussants:</i> Rahmat Balogun, Robert Harrison, Stephanie Holm
12:00 pm		<i>Adjourn</i>	

**P** • Pain Credit   **G** • Geriatric Credit   **T** • Trauma Credit

# Work and Environmental Respiratory Disease and Updates in Occupational and Environmental Medicine

## March 7-9, 2024

### GENERAL INFORMATION

Advance registration closes one (1) business day prior to start of course.

### HOW TO ENROLL

#### FULL COURSE Registration Fees

(Three Days • March 7-9, 2024)

Early Bird Rate: Ends 1/7/2024

17.75 AMA PRA Category 1 Credits™

by 1/7/24 after 1/7/24

Physicians	\$675	\$725
Advanced Practice Professionals	\$575	\$625
Residents/Fellows/Trainees	\$450	\$500

Current graduate trainees should inquire regarding special registration options. If you would like to register for only the **Work and Environmental Respiratory Disease** or **Updates in Occupational and Environmental Medicine**, see information on individual sections below:

#### Work and Environmental Respiratory Disease (One Day • March 7, 2024)

8.00 AMA PRA Category 1 Credits™

by 1/7/24 after 1/7/24

Physicians	\$350	\$400
Advanced Practice Professionals	\$275	\$325
Residents/Fellows/Trainees	\$225	\$275

#### Updates in Occupational and Environmental Medicine Section Only (Two Days • March 8-9, 2024)

10.00 AMA PRA Category 1 Credits™

by 1/7/24 after 1/7/24

Physicians	\$400	\$450
Advanced Practice Professionals	\$350	\$400
Residents/Fellows/Trainees	\$225	\$275

### GREENER MEETING

We're saving paper! The syllabus will be available electronically one week prior to the course.

**Refund Policy:** Cancellations received in writing before the first day of the course will be refunded, less a \$75 administrative fee. No refunds will be made on cancellations received after that date.

### REGISTER VIA

**Online:** [cme.ucsf.edu](http://cme.ucsf.edu)

**Mail:** Complete course registration form and send with payment to:

**UCSF Office of Continuing Medical Education**

490 Illinois Street, Floor 8  
San Francisco, CA 94143

**Phone:** To register by phone or to inquire about registration status, please call UCSF's CME Registration Office at (415) 476-5808.

### CONFERENCE LOCATION

Enjoy San Francisco's renowned attractions such as the historic cable cars, shopping in Union Square, or visit San Francisco's culinary hub at the Ferry Building. **San Francisco Marriott Fisherman's Wharf** is just steps from Fisherman's Wharf and a short walk to Pier 39 attractions.

A block of guestrooms has been reserved at the special UCSF conference rate of **\$219/night**. You are urged to make your reservations early. The cut-off date is **February 6, 2024**, or until the group room block is filled. After this date, rooms will be provided on a space-available basis only. To make hotel reservations online, go to [www.cme.ucsf.edu](http://www.cme.ucsf.edu) and click on the hotel link in the Travel & Lodging section of the course webpage. If you prefer to telephone in your reservation, call reservations at (800) 228-9290 or (415) 775-7555. Please identify yourself as a member of this UCSF conference to receive the special rate.

*By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable.*

### AIR TRANSPORTATION

UCSF has negotiated special fares with airlines and car rental agencies. Please visit the TRAVEL AND LODGING section on the course webpage at [www.cme.ucsf.edu](http://www.cme.ucsf.edu) for more information and discount codes.

general  
info



For more information or to register online visit our website at [www.cme.ucsf.edu](http://www.cme.ucsf.edu)  
You may also reach us by calling the Office of CME at (415) 476-4251 or emailing [info@ocme.ucsf.edu](mailto:info@ocme.ucsf.edu).

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University of California, San Francisco • Office of CME  
Box 0742 • 490 Illinois Street, Floor 8 • San Francisco, CA 94143

#### COURSE CHAIRS

University of California, San Francisco

##### **Paul D. Blanc, MD MSPH**

Professor of Medicine,  
Endowed Chair and Division Chief  
Occupational, Environmental, and  
Climate Medicine

##### **Robert Kosnik, MD DIH**

Clinical Professor of Medicine;  
Medical Director, UCSF  
Occupational Health Services,  
Division of Occupational,  
Environmental, and Climate  
Medicine

##### **Samuel M. Goldman, MD MPH**

Emeritus Professor of Medicine  
and Neurology; Division of  
Occupational, Environmental and  
Climate Medicine

##### **Rahmat Balogun, DO MPH**

Assistant Clinical Professor of  
Medicine; Assistant Medical Director,  
UCSF Occupational Health Services,  
Division of Occupational,  
Environmental, and Climate Medicine

##### **Stephanie Holm, MD MPH PhD**

Co-Director, Western States Pediatric  
Environmental Health Specialty Unit;  
Assistant Clinical Professor of  
Medicine, Division of Occupational,  
Environmental, and Climate Medicine

#### COURSE FACULTY

Faculty affiliated with UCSF unless  
otherwise stated

##### **John Balmes, MD**

Emeritus Professor of Medicine  
Division of Occupational,  
Environmental and Climate Medicine

##### **Hayley Barnes, MD**

Department of Respiratory Medicine,  
Alfred Health, Melbourne, Australia

##### **Robert Cohen, MD**

Professor of Medicine  
Northwestern University, Feinberg  
School of Medicine, Chicago, IL

##### **Shephali Gandhi, MD MPH**

Assistant Clinical Professor of  
Medicine; Division of Occupational,  
Environmental and Climate Medicine

##### **Robert Harrison, MD MPH**

Clinical Professor of Medicine  
Division of Occupational,  
Environmental and Climate Medicine

##### **Amy Heinzerling, MD MPH**

Assistant Professor of Medicine  
Division of Occupational,  
Environmental and Climate Medicine

##### **Joel Kauffman, MD, MPH**

Professor, Epidemiology,  
Environmental and Occupational  
Health Sciences, and Medicine  
University of Washington,  
Seattle, WA

##### **John Keller, MD**

California Poison Control System,  
San Francisco Division; Toxicology  
Fellow, UCSF

##### **Howard M. Kipen, MD MPH**

Professor of Environmental &  
Occupational Health  
Director, Clinical Research &  
Occupational Medicine Division,  
Environmental & Occupational Health  
Sciences Institute (EOHSI), Rutgers  
School of Public Health  
Piscataway, NJ

#### COURSE FACULTY (CONT'D)

##### **Ware Kuschner, MD**

Professor of Medicine,  
Division of Pulmonary, Allergy and  
Critical Care Medicine, Stanford  
University School of Medicine  
Section Chief, Pulmonary, Critical  
Care and Sleep Medicine, VA Palo  
Alto Health Care System

##### **Anthony Lopez, DO MPH**

Staff Physician, Kaiser Permanente  
San Francisco

##### **Stephen Petrou, MD**

California Poison Control System,  
San Francisco Division; Toxicology  
Fellow, UCSF

##### **Rajan Puri, MD MPH**

Corporate Medical Director,  
PBF Energy  
Occupational Health Physician,  
Stanford University

##### **Carrie Redlich, MD MSPH**

Professor of Medicine and  
Environmental Health Sciences  
Director, Yale Occupational and  
Environmental Medicine Program,  
Yale University, New Haven, CT

##### **Carl Reynolds, MD**

Consultant in Respiratory and Acute  
Medicine with an interest in lung  
cancer and respiratory intervention,  
Imperial College Healthcare NHS  
Trust; Honorary Senior Lecturer,  
National Heart and Lung Institute  
at Imperial College London  
London, England

##### **Dennis Shusterman, MD MPH**

Emeritus Professor of Medicine  
Division of Occupational,  
Environmental and Climate Medicine

##### **Kjell Torén, MD**

Occupational and Environmental  
Medicine, Institute of Medicine  
The Sahlgrenska Academy,  
University of Gothenburg,  
Gothenburg, Sweden

faculty

COURSE REGISTRATION FORM • MDM24N01

Work and Environmental Respiratory Disease and Updates in Occupational and Environmental Medicine

March 7-9, 2024 • San Francisco Marriott Fisherman's Wharf • San Francisco

Mail to : UCSF Office of CME, Box 0742
490 Illinois Street, Floor 8
San Francisco, CA 94143

Online registration: www.cme.ucsf.edu
Registration Information: (415) 476-5808
Course Information: (415) 476-4251

Dr. Ms. Mr. Mrs. Mx.

Form fields for LAST NAME, FIRST, M.I., DEGREE, SPECIALTY, ADDRESS, CITY, STATE, ZIP, DAYTIME PHONE, EMAIL, CELL PHONE.

Address Label Code Letter (see address label: example, A, B, C, D, etc.)

Please indicate if you have any special needs:

Would you like to be on our priority email list? Yes No

FULL COURSE Registration Fees

(Three days • March 7-9, 2024) 17.75 AMA PRA Category 1 Credits™

- Physicians (\$725 after 1/7/2024)
Advanced Practice Professionals (\$625 after 1/7/2024)
Residents/Fellows/Trainees (\$500 after 1/7/2024)

INDIVIDUAL SECTIONS:

Work and Environmental Respiratory Disease (March 7, 2024)

(One day • March 7, 2024) 8.00 AMA PRA Category 1 Credits™

- Physicians (\$400 after 1/7/2024)
Advanced Practice Professionals (\$325 after 1/7/2024)
Residents/Fellows/Trainees (\$275 after 1/7/2024)

Updates in Occupational and Environmental Medicine Section Only

(Two Days • March 8-9, 2024) 10.00 AMA PRA Category 1 Credits™

- Physicians (\$450 after 1/7/2024)
Advanced Practice Professionals (\$400 after 1/7/2024)
Residents/Fellows/Trainee (\$275 after 1/7/2024)

Check enclosed payable to UC Regents

Please charge my credit card: Visa MasterCard AmEx for \$

CARD # EXPIRATION DATE

NAME ON CARD (PLEASE PRINT) AUTHORIZED SIGNATURE

Refund Policy: Cancellations received in writing before March 6, 2024 will be refunded, less a \$75 administrative fee.

Please check our website for up-to-date information on the course: www.cme.ucsf.edu

San Francisco Marriott Fisherman's Wharf
1250 Columbus Ave.
San Francisco, CA 94133
Phone: (415) 775-7555
www.marriottfishermanswharf.com

