

# Health, Occupation and the Environment: Global Issues and Local Action *and* Updates in Occupational and Environmental Medicine



*The Making of a Fresco Showing the Building of a City*  
by Diego Rivera 1931 © 2012 Joaquin Martinez

## COURSE CHAIRS

### **Gina Solomon, MD MPH**

Professor of Medicine; Chief, Division of Occupational, Environmental and Climate Medicine

### **John Balmes, MD**

Emeritus 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

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

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

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

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

### **Sandra Domeracki, RN MSN FNP-BC COHN**

Professor, Community Health Systems, School of Nursing

**WEDNESDAY – FRIDAY**

## March 12-14, 2025

Omni San Francisco Hotel  
500 California Street  
San Francisco, CA 94101

**\* Live Stream is available for those who cannot attend in person**



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



Additional Event **Thursday, March 13th**  
Scientific Poster Session  
Call for Abstracts to Follow

# Health, Occupation and the Environment: Global Issues and Local Action *and* Updates in Occupational and Environmental Medicine

March 12-14, 2025

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 medico-legal practitioners also benefit from the curriculum offered.

The first day of the 2025 course, **Health, Occupation, and the Environment: Global Issues and Local Action**, will focus on global issues in Occupational and Environmental Health and be held in honor of the late Dr. Joseph “Joe” LaDou, MD., a great teacher and editor of a definitive textbook in occupational and environmental medicine.

The second and third days will cover challenging cases in Occupational and Environmental Medicine, Generative AI, Integrative Medicine and effective advocacy for patients and communities. This year’s conference will also include breakout sessions, interactive demonstrations, and other opportunities to interact with the presenters and other attendees. A poster session will be held during afternoon of the second day to showcase work from students, trainees, and other participants. A call for posters will be issued prior to the meeting.

## 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 climate 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:

- Analyze the evolving landscape of Occupational and Environmental Health (OEH) practice by identifying emerging challenges related to climate change, planetary health, and patient-centered integrative care to improve competency in addressing complex clinical cases.
- Apply evidence-based strategies and systematic approaches to assess and manage challenging OEH cases, incorporating integrative and multidisciplinary perspectives that align with current trends and best practices in the field.
- Develop a comprehensive approach to patient and community health by integrating knowledge of climate and environmental factors with traditional occupational health practices to enhance clinical outcomes and address broader public health concerns.

## 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 **19.25 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 **3.00** geriatric credits toward meeting the requirement under California Assembly Bill 1820, Geriatric Medicine.

**Pain Medicine:** The approved credits shown above include **5.00** 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 **1.50** 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):** Approved for California Division of Workers Compensation – Medical Unit for Qualified Medical Evaluator credit.

WEDNESDAY, MARCH 12, 2025

HEALTH, WORK AND THE ENVIRONMENT: GLOBAL ISSUES AND LOCAL ACTION

7:00 am		Registration and Continental Breakfast	
7:45		Introductions	Robert Harrison, MD MPH and John Balmes, MD
8:00		KEYNOTE: The Expanding Global Impact of Occupational and Environmental Disease in a Changing Climate	Isabella Annesi-Maessano, MD PhD
8:50		Carbon Capture, Removal and Storage Technologies: Potential Human Health Risks	Seth B.C. Shonkoff, PhD MPH
9:40		Break	
10:10		Plastics: Lifecycle Impacts on Workers, Climate and the Environment	Charlotte Brody, RN
10:50		The Green Economy: Innovation for Better or for Worse	Meg Schwarzman, MD PhD MPH
11:30	G	The Green Economy, Globalization and the Health of Workers and Communities	Moderator: Gina Solomon, MD MPH Panelists: Charlotte Brody, RN Meg Schwarzman, MD PhD MPH
12:00 pm		Lunch on Own	
1:15	T	KEYNOTE: Investigative Journalism and Worker Safety and Health	Jim Morris
2:00	T	Reducing Disease and Death from Artisanal and Small-Scale Mining (ASM)	Benoit Nemery, MD PhD
2:40	G	Heat and Vulnerable Workers – Local and Global Impacts	Ximena P. Vergara, PhD MPH
3:20		Break	
3:50		Connecting the Dots: The Historical Role of Global Leaders in Occupational and Environmental Health	Paul Blanc, MD MSPH
CLOSING PANEL			
4:30		What Would Joe LaDou do about Working Conditions Today?	Moderator: Robert Harrison, MD MPH Panelists: Ted Smith Garrett D. Brown, MPH CIH Sadie Costello, PhD
5:15 pm		Adjourn	

THURSDAY, MARCH 13, 2025

MORNING SESSION: CHALLENGING CASES IN OCCUPATIONAL & ENVIRONMENTAL MEDICINE

7:15 am		Registration and Continental Breakfast	
8:00		Introductions	Sandra Domeracki, RN MSN FNP-BC COHN-S
8:10	P	Chronic Pain Mechanisms from Periphery to Cortex	Prasad Shirvalkar, MD PhD
8:50		Mold Exposures and Health	Gina Solomon, MD MPH
9:30		Break	
10:00	P	Long COVID and Chronic Fatigue Syndromes in Workers	Carla Kuon, MD
10:50	P	Roundtable Breakout Sessions Pain Mold* Long COVID	Prasad Shirvalkar, MD PhD Gina Solomon, MD MPH Carla Kuon, MD
11:40		Challenging Cases: Roundtable Debrief Panel	Moderator: Sandra Domeracki, RN MSN FNP-BC COHN-S Panelists: Prasad Shirvalkar, MD PhD Gina Solomon, MD MPH Carla Kuon, MD
12:00 pm		Lunch	
1:15		Round Robin Panel: How to be an Effective Advocate for Your Patients and Communities Governmental Agencies Working with Unions Medico-legal Issues Media Advocacy	Panel Moderator: John Balmes, MD Mariela Ruacho, MS Laura Stock, MPH Timur Durrani, MD MPH MBA Carly Severn
2:00		Breakout Roundtables Governmental Agencies Working with Unions Medico-legal Issues* Media Advocacy	Mariela Ruacho, MS Laura Stock, MPH Timur Durrani, MD MPH MBA Carly Severn
2:45		Coffee Break / Poster Abstract Session	
5:00 pm		Adjourn	



FRIDAY, MARCH 14, 2025

MORNING SESSION: UPDATES IN OCCUPATIONAL AND ENVIRONMENTAL MEDICINE

7:15 am	Registration and Continental Breakfast	
8:00	Introductions	Rahmat Balogun, DO MS MPH
8:10	PG The Biological Mechanisms of Yoga for the Treatment of Chronic Multi-Symptom Illness	Peter J. Bayley, PhD
9:00	P Meditation and Mindfulness: An Approach to Help Workers Dealing with Injuries and Everyday Stressors	Kavita K. Mishra, MD MPH
9:50	Break	
10:10	Nature Therapy	Ben Page, MA
11:00	PG Experiential Breakout Sessions Yoga/Movement Meditation Mindfulness* Nature Therapy	Rahmat Balogun, DO MS MPH Kavita Mishra, MD MPH Ben Page, MA
12:00 pm	Lunch on Own	
AFTERNOON SESSION: ARTIFICIAL INTELLIGENCE (AI) IN OCCUPATIONAL HEALTH		
1:15P	Generative AI: From Occupational to Climate Medicine	Stefano Leitner, MD MPH MS
1:55	SmartChart and Medico-Legal Reporting	Michael Lesh, SM MD FACC
2:35	The Growing Role of Digital Scribe and Related Technologies	Karl Swanson, DO MS
3:15	Extended Coffee Break	
	AI Demonstration Stations: CHILL Climate; Digital Scribe; Digesting Data; Generating Letters and Responses using AI	
CLOSING PANEL		
4:00	Wrap-Up Panel Discussion: The Future of OEMC	Panel Moderator: Gina Solomon, MD MPH Panelists: Benoit Nemery, MD PhD Carisa Harris-Adamson, PhD Rahmat Balogun, DO MS MPH
5:15 pm	Adjourn	

P - Pain Credit   G - Geriatric Credit   T - Trauma Credit   \* - Breakout Session via Live Stream

GENERAL INFORMATION

Advance registration closes one (1) business day prior to start of course.  
**HOW TO ENROLL** All fees will be the same for live stream. We will be offering a *\*hybrid live stream* option for attendees who cannot attend in person.

FULL COURSE Registration Fees

(Three Days • March 12-14, 2025)

Early Bird Rate: Ends 1/24/2025

18.00 AMA PRA Category 1 Credits™  
by 1/24/25 after 1/24/25

Physicians	\$700	\$750
Advanced Practice	\$550	\$600
Professionals		
Residents/Fellows/Trainees	\$375	\$425

Current graduate trainees should inquire regarding special registration options. If you would like to register for only the **Health, Occupation and the Environment: Global Issues and Local Action** or **Updates in Occupational and Environmental Medicine**, see below:

**Health, Occupation and the Environment: Global Issues and Local Action • (One Day • March 12, 2025)**

8.00 AMA PRA Category 1 Credits™  
by 1/24/25 after 1/24/25

Physicians	\$375	\$425
Advanced Practice	\$250	\$300
Professionals		
Residents/Fellows/Trainees	\$225	\$275

**Updates in Occupational and Environmental Medicine Section Only • (Two Days • March 13-14, 2025)**

10.00 AMA PRA Category 1 Credits™  
by 1/24/25 after 1/24/25

Physicians	\$425	\$475
Advanced Practice	\$325	\$375
Professionals		
Residents/Fellows/Trainees	\$200	\$250

GREENER MEETING

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

REGISTER VIA

**Online:** [cme.ucsf.edu](https://cme.ucsf.edu)  
**Mail:** Complete course registration form and send with payment to:  
**UCSF Office of Continuing Medical Education**  
490 Illinois Street, Floor 7  
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.

**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.

CONFERENCE LOCATION

The **Omni San Francisco Hotel** is in the heart of downtown, and a short walk from art and cultural centers, the historic cable car line, Union Square and Chinatown. Many attractions are convenient to reach from our San Francisco hotel.

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 17, 2025**, 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 [cme.ucsf.edu](https://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 [cme.ucsf.edu](https://cme.ucsf.edu) for more information and discount codes.



REGISTER NOW! For more information or to register online visit our website at [cme.ucsf.edu](http://cme.ucsf.edu)

You may also reach us by contacting the Office of Continuing Medical Education at [tiny.ucsf.edu/cmehelp](mailto:tiny.ucsf.edu/cmehelp) or call (415) 476-5808.

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Box 0742 • 490 Illinois Street, Floor 7 • San Francisco, CA 94143

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#### COURSE CHAIRS

University of California, San Francisco

##### **Gina Solomon, MD MPH**

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Environmental, and Climate Medicine

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

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

##### **Sandra Domeracki, RN MSN**

**FNP-BC COHN-S**  
Professor, Community Health  
Systems, School of Nursing

#### COURSE FACULTY

Faculty affiliated with UCSF unless  
otherwise stated

##### **Isabella Annesi-Maessano, MD PhD**

Desbrest Institute of Epidemiology  
and Public Health, University  
Montpellier, INSERM  
Montpellier, France

##### **Peter J. Bayley, PhD**

Director of Research, War Related  
Illness and Injury Study Center  
(WRIISC), VA Palo Alto; Health Care  
System; Clinical Associate Professor  
(Affiliated), Department of Psychiatry  
and Behavioral Sciences, Stanford  
University

#### COURSE FACULTY (CONT'D)

##### **Paul Blanc, MD MSPH**

Professor of Medicine Emeritus

##### **Charlotte Brody, RN**

Vice President, Health Initiatives,  
Bluegreen Alliance

##### **Garrett D. Brown, MPH CIH**

Coordinator, Maquiladora Health  
and Safety Support Network

##### **Sadie Costello, PhD**

Associate Professor, Environmental  
Health Science, UC Berkeley

##### **Timur Durrani, MD MPH MBA**

Professor of Medicine, Associate  
Chief for Clinical Services of OECM

##### **Carisa Harris-Adamson, PhD**

Professor of Medicine and Director  
Center for Occupational and  
Environmental Health

##### **Carla Kuon, MD**

Associate Professor of Medicine  
Osher Center for Integrative Health  
Director, UCSF post COVID  
OPTIMAL-IH Clinic

##### **Stefano Leitner, MD MP MS**

Kaiser Permanente Occupational  
Health, San Rafael

##### **Michael Lesh, SM, MD FACC**

Professor of Medicine, Executive  
Director of Health  
Technology Innovation,  
Office of the Vice Chancellor

##### **Kavita K. Mishra, MD MPH**

Professor of Medicine and  
Osher Foundation Endowed  
Chair in Clinical Programs  
in Integrative Health,  
Osher Center for Integrative Health  
Director, Proton Ocular Radiation  
Oncology

##### **Jim Morris**

Founder and Executive Director,  
Public Health Watch

#### COURSE FACULTY (CONT'D)

##### **Benoit Nemery, MD PhD**

Professor of Medicine  
Clinic for Occupational and  
Environmental Medicine,  
Department of Respiratory Diseases,  
University Hospitals  
Leuven, Belgium

##### **Ben Page, MA**

Guide, Author and Global Advocate  
for Forest Bathing  
Founder, Integral Forest Bathing

##### **Mariela Ruacho, MS**

Senior Manager, Advocacy, Clean  
Air, American Lung Association,  
Sacramento, California

##### **Meg Schwarzman, MD PhD MPH**

Environmental Health Scientist and  
Lecturer, UC Berkeley

##### **Prasad Shirvalkar, MD PhD**

Associate Professor, Anesthesia  
(Pain Management)  
Neurological Surgery and Neurology

##### **Ted Smith**

Founder, Silicon Valley Toxics  
Coalition and Coordinator,  
International Campaign for  
Responsible Technology  
San Jose CA

##### **Laura Stock, MPH**

Director, Labor Occupational Health  
Program (LOHP), Center for  
Occupational Health, UC Berkeley

##### **Karl Swanson, DO MS**

Ambience Health Care,  
San Francisco

##### **Ximena P. Vergara, Ph, MPH**

Chief, Hazard Evaluation System  
and Information Service California  
Department of Public Health,  
Occupational Health Branch

faculty

COURSE REGISTRATION FORM • ONSITE AND LIVE STREAM • **MDM25N01**


**Health, Occupation and the Environment: Global Issues and Local Action  
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Register online: **cme.ucsf.edu**  
For support, please visit [tiny.ucsf.edu/cmehelp](http://tiny.ucsf.edu/cmehelp)  
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☐ Dr. ☐ Ms. ☐ Mr. ☐ Mrs. ☐ Mx.

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DAYTIME PHONE					
EMAIL			CELL PHONE		

 Please indicate if you have any special needs: \_\_\_\_\_

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

**FULL COURSE Registration Fees** • All fees will be the same for live stream  
(Three days • March 12-14, 2025) **18.00 AMA PRA Category 1 Credits™**

- ☐ **\$700** Physicians (**\$750** after 1/24/2025)
- ☐ **\$550** Advanced Practice Professionals (**\$600** after 1/24/2025)
- ☐ **\$375** Residents/Fellows/Trainees (**\$425** after 1/24/2025)

**INDIVIDUAL SECTIONS:**  
**Health, Occupation and the Environment: Global Issues and Local Action (March 12, 2025)**  
(One day • March 12, 2025) **8.00 AMA PRA Category 1 Credits™**

- ☐ **\$375** Physicians (**\$425** after 1/24/2025)
- ☐ **\$250** Advanced Practice Professionals (**\$300** after 1/24/2025)
- ☐ **\$200** Residents/Fellows/Trainees (**\$250** after 1/24/2025)

**Updates in Occupational and Environmental Medicine Section Only**  
(Two Days • March 13-14, 2025) **10.00 AMA PRA Category 1 Credits™**

- ☐ **\$425** Physicians (**\$475** after 1/24/2025)
- ☐ **\$325** Advanced Practice Professionals (**\$375** after 1/24/2025)
- ☐ **\$200** Residents/Fellows/Trainee (**\$250** after 1/24/2025)

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CARD #	EXPIRATION DATE
NAME ON CARD (PLEASE PRINT)	AUTHORIZED SIGNATURE

**Refund Policy:** Cancellations received in writing before **March 11, 2025** will be refunded, less a \$75 administrative fee. No refunds will be made on cancellations received after that date.

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

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