

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

UCSF



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

## THURSDAY, MARCH 13, 2025

### MORNING SESSION: CHALLENGING CASES IN OCCUPATIONAL & ENVIRONMENTAL MEDICINE

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

# 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 Peter J. Bayley, PhD
8:10 PG	The Biological Mechanisms of Yoga for the Treatment of Chronic Multi-Symptom Illness	
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 OECM	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
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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
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**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
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## 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](http://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](http://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](http://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 [tinyurl.com/cmehelp](http://tinyurl.com/cmehelp) or call (415) 476-5808.



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#### COURSE CHAIRS

University of California, San Francisco  
**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 MP 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-S**  
Professor, Community Health Systems, School of Nursing

#### COURSE FACULTY

Faculty affiliated with UCSF unless otherwise stated

**Isabella Annesi-Maesano, MD PhD**  
Desbrete 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 OEMC

**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 Heath 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  
and Updates in Occupational and Environmental Medicine**

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Mail to : UCSF Office of CME, Box 0742  
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For support, please visit [tiny.ucsf.edu/cmehelp](http://tiny.ucsf.edu/cmehelp)  
or by phone at (415) 476-5808

Dr.  Ms.  Mr.  Mrs.  Mx.

LAST NAME

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M.I.

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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/Trainee (**\$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)

Check enclosed payable to *UC Regents*

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

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