

Division of Occupational  
and Environmental Medicine  
Department of Medicine  
University of California, San Francisco



## Occupational and Environmental Factors in Neurological Disease and Occupational and Environmental Medicine Update

HOLIDAY INN FISHERMAN'S WHARF • SAN FRANCISCO, CA

## Occupational and Environmental Factors in Neurological Disease and Occupational and Environmental Medicine Update

October 31 - November 3, 2012

This course, presented by the Division of Occupational and Environmental Medicine in the Department of Medicine at the University of California, San Francisco, is designed to provide occupational and environmental health professionals and persons from other health care related disciplines with a review and update of current data in clinical toxicology, 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 occupational and environmental factors in neurological disease.

This course is approved for American Board of Preventative Medicine Maintenance of Certification credit and is a comprehensive update for occupational medicine specialists. In addition, this course is also designed to meet the needs of primary care providers and others engaged in occupational health practice and research including physicians (family physicians, general practitioners, internists, emergency medicine specialists), nurse practitioners and other nursing professionals, physician's assistants, industrial hygienists, and health care researchers and policy makers.

### ACCREDITATION

The University of California, San Francisco School of Medicine (UCSF) is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

UCSF designates this live activity for a maximum of **20.0 AMA PRA Category 1 Credit(s)**<sup>™</sup>.

Physicians should only claim credit commensurate with the extent of their participation in the activity.

### American Board of Preventive Medicine:

The American Board of Preventive Medicine for Maintenance of Certification (MOC) has approved this course for a maximum of **20.0 MOC Part II credits.c.**

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

### Pain Management and End-of-Life Care

The approved credits shown above include a maximum of **3.0** credits toward meeting the requirement under California Assembly Bill 487, Pain Management and End-of-Life Care.

**Geriatric Medicine:** The approved credits shown above include **4.25** credits toward meeting the requirement under California Assembly Bill 1820, Geriatric Medicine for internists and family practice physicians licensed in California to complete 20% of their ongoing mandatory continuing medical education if their practice is comprised of a patient population of which 25% is aged 65 years or older.

**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):** Application for credit has been filed with the California Division of Workers Compensation- Medical Unit for Qualified Medical Evaluator credit. *Determination of credit is pending.*

**Nurses:** For the purpose of recertification, the American Nurses Credentialing Center accepts **AMA PRA category 1 Credit**<sup>™</sup> 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**<sup>™</sup> from organizations accredited by the ACCME.

The Neurological Disease  
session is sponsored by:



**SOT** Society of  
Toxicology  
Creating a Safer and Healthier World  
by Advancing the Science of Toxicology

Endorsed by the Agency for Toxic  
Substances and Disease Registry

### COURSE CHAIRS

**Paul D. Blanc, MD, MSPH**  
Professor of Medicine,  
Endowed Chair and Division Chief,  
Occupational and Environmental Medicine  
University of California, San Francisco

**Robert Kosnik, MD, DIH**  
Associate Professor, Medical Director,  
Occupational Health Services, Division of  
Occupational and Environmental Medicine  
University of California, San Francisco

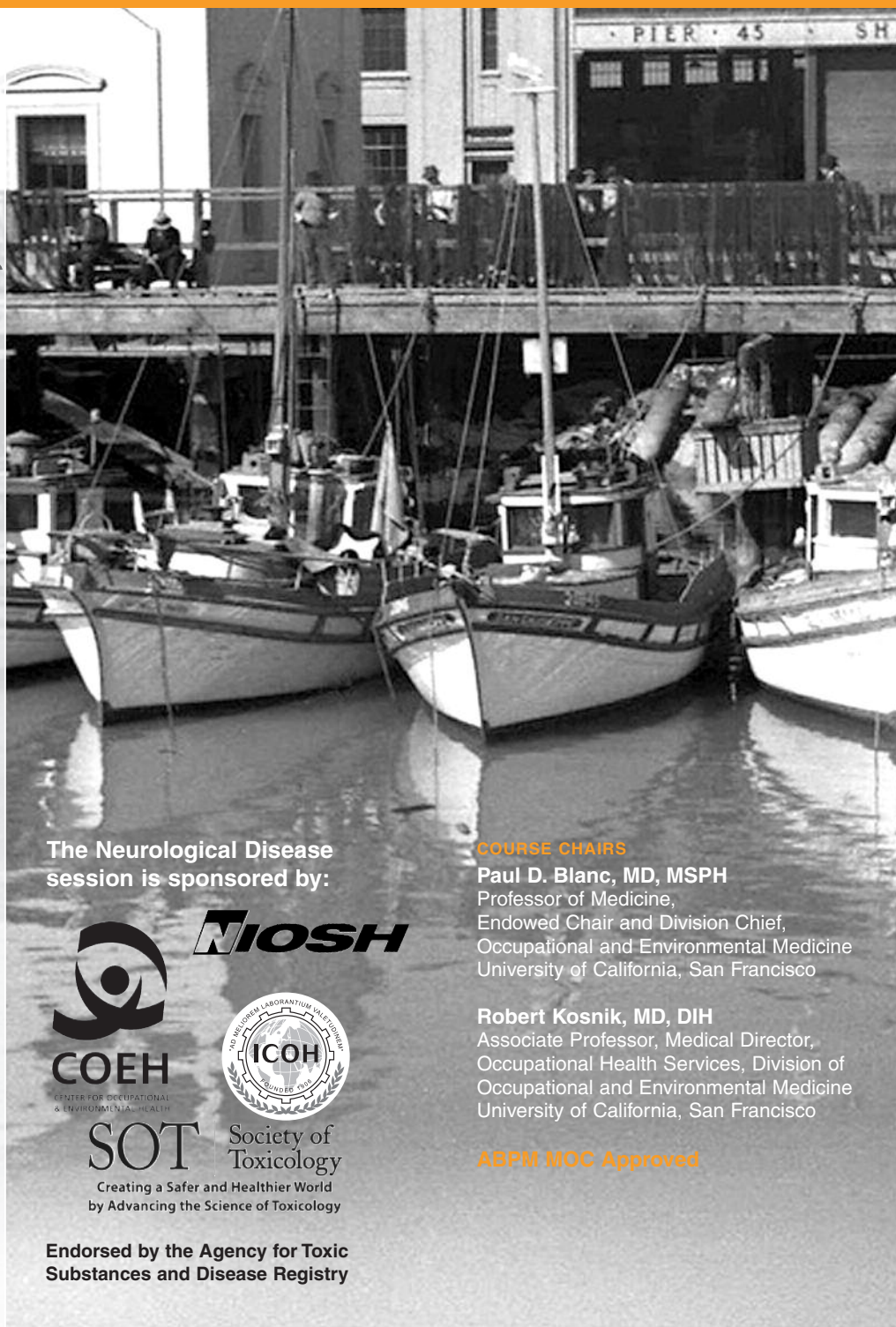
ABPM MOC Approved

### OBJECTIVES

Upon completion of this course, attendees will have:

- Improved medical knowledge derived from research findings, particularly from toxicological and epidemiological investigations;
- Increased ability to interpret the scientific database in the field of occupational and environmental health;
- Increased competence in diagnostic approaches and widened awareness of treatment options for selected occupational and environmental conditions.

WEDNESDAY - SATURDAY  
October 31 - November 3, 2012





# Occupational and Environmental Factors in Neurological Disease

## WEDNESDAY, OCTOBER 31, 2012

3:00 pm	Workshop Registration	
4:00-	<b>Hands-On Workshops</b> (additional fee required-enrollment limited)	
5:30 pm	1. Electrophysiological Testing	Anne Poncelet, MD
	2. Neuropsychiatric Testing	Joel Kramer, PsyD
	3. Neurological Examination	Jonathan S. Rutchik, MD, MPH

6:30-8:00 pm Conference Opening Reception and Scientific Poster Session

## OCCUPATIONAL AND ENVIRONMENTAL FACTORS IN NEUROLOGICAL DISEASE THURSDAY, NOVEMBER 1, 2012 • ONE DAY ONLY

7:30 am	Registration/Continental Breakfast	
8:15	<b>Introductory Keynote: Neurologic Disease and Environmental Exposures – Evidence and Opportunity from Applied Research</b>	Tom Sinks, PhD
8:40 ▲	<b>Chemical Triggers of Peripheral Neuropathy</b>	Peter Spencer, PhD
9:20 ◆	<b>Metal Neurotoxins</b>	Brian Schwartz, MD, MS
10:00	Break	
10:20 ◆	<b>Occupational and Environmentally-related Central Nervous System Degenerative Disease</b>	Caroline M. Tanner, MD, PhD
11:00 ◆	<b>Hearing Loss: Exposure Cofactors in Noise-induced Loss</b>	Laurence Fechter, PhD
11:40	<b>Occupational Exposures and the Special Senses: Sight, Smell, and Taste</b>	Donald A. Fox, PhD
12:20 pm	Lunch (on your own)	
1:40	<b>Red Tide Toxin as a Paradigm for Biological Neurotoxins – Implications for Work-related and Environmental Exposures</b>	Lora Fleming, MD, MPH, PhD
2:20	<b>Sympathetic Nervous System as a Target Organ</b>	Howard Kipen, MD
3:00 ◆	<b>Cerebellar Manifestations of Occupational and Environmental Toxicant Exposure</b>	Roberto Lucchini, MD
3:40	Break	
4:10 ▲	<b>Overuse Neuropathy: Evolving Concepts</b>	Edward Diao, MD
4:50	<b>Emerging Neurotoxins</b>	Jordan Firestone, MD, PhD, MPH
5:30	<b>Concluding Panel Session: Setting the Future Agenda</b>	Ellen Widess, JD Markku Sainio, MD, PhD Bruce Bernard, MD, MPH
6:15 pm	Adjourn	

## OCCUPATIONAL AND ENVIRONMENTAL MEDICINE UPDATE FRIDAY, NOVEMBER 2, 2012 • DAY ONE

7:00 am	Registration/Continental Breakfast	
7:45	<b>Introduction</b>	Paul D. Blanc, MD, MSPH
8:00 ◆	<b>Carcinogens: Is My Cancer Work-related?</b>	Michael Fischman, MD, MPH
8:45	<b>Chlorinated Solvents: Worker and Environmental Issues</b>	Robert Harrison, MD, MPH
9:30	<b>Histoplasmosis, Coccidiomycosis, and Blastomycosis in Occupational Groups</b>	Bruce Leistikow, MD, MS Rupali Das, MD, MPH
10:15	Break	
10:30 ◆ ▲	<b>Emerging Issues in Metal Toxicity: Metal on Metal Joint Prostheses</b>	Patrick Whiteley, MD
11:15	<b>Lessons Learned: What the Epidemiology of Health Care Worker's Injury Teaches Us About the Prevention of Occupational Injury Generally</b>	Robyn Gershon, MHS, DrPH
12:00 pm	<b>Emergency Response from a Public Health Perspective</b>	Rachel Roisman, MD, MPH
12:45	Lunch (on your own)	
2:00	<b>Electronic Medical Records and Opportunities for Improved Occupational Health</b>	Paul J. Papanek, MD, MPH
2:45	<b>The 'Healthy Work Environment': A New, Integrated Approach to Worker Safety and Health</b>	Barbara Burgel, RN, PhD, COHN-S, FAAN
3:30	Break	
3:45	<b>University Students as an Occupational Health Group</b>	Paul Rountree, MD

◆ – Geriatric Credit ▲ – Pain Credit

# Occupational and Environmental Medicine Update

Holiday Inn Fisherman's Wharf Hotel  
San Francisco, CA

4:30	<b>Improving Patient Quality by Reducing Health Care Provider Fatigue: Wider Implications for Occupational Medicine?</b>	Robert Kosnik, MD, DIH
5:15 pm	Adjourn	

## OCCUPATIONAL AND ENVIRONMENTAL MEDICINE UPDATE SATURDAY, NOVEMBER 3, 2012 • DAY TWO

7:30 am	Continental Breakfast	
8:00	<b>Environmental and Occupational Aspects of Personal Care and Cosmetic Products – Endocrine Disruptors to Nanoparticles to Heavy Metals</b>	Gina Solomon, MD, MPH
9:00	<b>Hydraulic Fracturing and In Situ Extraction: Newer Methods of Resource Exploitation and Their Potential Health Risks</b>	Max Kiefer, MS, CIH
10:00	Break	
10:15 ▲	<b>Farmworker Health: Persistent Problems and New Risks</b>	Marc Schenker, MD
11:05	<b>Biodiesel and Other Newer Fuels and Fuel Additives</b>	John Balmes, MD
11:55	<b>Radiation and Human Health – Recent International and Domestic Issues</b>	James Seward, MD, MPP
12:45 pm	Adjourn/Evaluations	

**COURSE CHAIRS**  
**Paul D. Blanc, MD, MSPH**  
Professor of Medicine, Endowed Chair and Division Chief, Division of Occupational and Environmental Medicine, University of California San Francisco  
**Robert Kosnik, MD, DIH**  
Associate Professor, and Medical Director, UCSF Occupational Health Services, Division of Occupational and Environmental Medicine, University of California San Francisco  
**COURSE FACULTY**  
(University of California, San Francisco unless otherwise noted)  
**John Balmes, MD**  
Professor of Medicine, San Francisco General Hospital Division Chief, Occupational and Environmental Medicine; Director, Northern California COEH  
**Bruce Bernard, MD, MPH**  
Chief Medical Officer, Health Hazard Evaluations and Technical Assistant Branch, National Institute for Occupational and Environmental Health, Centers for Disease Control and Prevention, Cincinnati, OH  
**Barbara Burgel, RN, PhD, COHN-S, FAAN**  
Professor of Clinical Nursing and Adult Nurse Practitioner; Occupational and Environmental Health Nursing Graduate Program  
**Rupali Das, MD, MPH\***  
Chief, Exposure Assessment Section, California Department of Public Health, Environmental Health Investigations Branch  
**Edward Diao, MD**  
Professor Emeritus of Orthopaedic Surgery  
**Laurence Fechter, PhD**  
Associate Director for Research, Loma Linda Veterans Association for Research and Education, Redlands, CA  
**Jordan Firestone, MD, PhD, MPH**  
Neurologist and Director of Occupational Health, Stanford University, Stanford, CA  
**Michael Fischman, MD, MPH\***  
Fischman Occupational & Environmental Medical Group, Walnut Creek, CA

**COURSE FACULTY (CONT'D)**  
**Lora Fleming, MD, MPH, PhD**  
Co-Director, NSF- NIEHS University of Miami Oceans and Human Health Center, Coral Gables, FL  
**Donald A. Fox, PhD**  
Professor, University of Houston School of Optometry, Houston, TX  
**Robyn Gershon, MHS, DrPH**  
Professor, Department of Epidemiology and Biostatistics and Philip R. Lee Institute for Health Policy Studies  
**Robert Harrison, MD, MPH**  
Professor of Medicine, Division of Occupational and Environmental Medicine; Occupational Health Branch, California Department of Public Health;  
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Director, Denver Regional Office, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Denver, CO  
**Howard Kipen, MD**  
Environmental and Occupational Health Sciences Institute, University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School, New Brunswick NJ  
**Joel Kramer, PsyD**  
Professor of Neuropsychology in Neurology  
**Bruce Leistikow, MD, MS**  
Chief Physician, Epidemiology & Surveillance, Public Health Unit, California Correctional Health Care Services, Medical Services Division  
**Roberto Lucchini, MD**  
Professor and Director of Occupational and Environmental Medicine, Department of Preventive Medicine, Mount Sinai School of Medicine, New York, NY  
**Paul J. Papanek, MD, MPH**  
Staff Physician, Occupational Health Service, Kaiser Permanente  
**Anne Poncelet, MD**  
Professor of Clinical Neurology; Mr. and Mrs. David George Rowe and Stephen W. Rowe Endowed Chair for Teaching in Neurology  
**Rachel Roisman, MD, MPH\***  
Public Health Medical Officer, California Department of Public Health

**COURSE FACULTY (CONT'D)**  
**Paul Rountree, MD**  
Assistant US Occupational Health Manager, ExxonMobil Corporation, Houston, TX  
**Jonathan S. Rutchik, MD, MPH\***  
Neurologist, Environmental and Occupational Medicine Associates, Mill Valley, CA  
**Markku Sainio, MD, PhD**  
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**Marc Schenker, MD**  
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**Brian Schwartz, MD, MS**  
Professor of Environmental Health Sciences, Epidemiology, and Medicine, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD  
**James Seward, MD, MPP\***  
Clinical Professor of Medicine and Medical Director, Lawrence Livermore National Laboratory, Livermore, CA  
**Tom Sinks, PhD**  
Deputy Director, National Center for Environmental Health and Agency for Toxic Substances and Disease Registry, Centers for Disease Control and Prevention, Atlanta, GA  
**Gina Solomon, MD, MPH\***  
Deputy Secretary for Science and Health, California Environmental Protection Agency  
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Director, Clinical Research Parkinson's Institute, Sunnyvale, CA  
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Chief, California Division of Occupational Safety and Health (CAL-OSHA), Sacramento, CA

\* Also clinical medicine faculty member, Occupational and Environmental Medicine, UCSF

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us by calling the  
Office of CME at  
(415) 476-4251 or  
emailing:  
[info@ocme.ucsf.edu](mailto:info@ocme.ucsf.edu).

#### GENERAL INFORMATION

Pre-registration is preferred to ensure that registrants receive a syllabus.

#### HOW TO ENROLL

Tuition: **\$675** Physicians  
**\$600** Allied Health Professionals/  
Residents/Fellows

You must call or fax if you would like to register for **only** the Neurological or Occupational Medicine Sections only

#### Occupational and Environmental Medicine Update Section Only (November 1)

**7.75 AMA PRA Category 1 Credits™**

**\$300** Physicians  
**\$250** Allied Health Professionals/  
Residents/Fellows

#### Occupational Medicine Section Only (November 2-3)

**12.25 AMA PRA Category 1 Credits™**

**\$400** Physicians  
**\$350** Allied Health Professionals/  
Residents/Fellows

#### Optional Pre-Course Workshops (October 31)

**1.5 AMA PRA Category 1 Credits™**

**\$50** Physicians/Allied Health Professionals/  
Residents/Fellows

Payment can be made by Visa, MasterCard, AmEx or check.

#### REGISTER VIA:

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

**Mail:** Complete course registration form and send with payment to:  
UCSF Office of CME  
P.O. Box 45368  
San Francisco, CA 94145-0368

**Fax:** Fax completed registration form to:  
(415) 502-1795 (be sure to include your credit card number)

**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

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. Located among the famed San Francisco waterfront's most celebrated shops, attractions, and restaurants, the Holiday Inn Fisherman's Wharf is just steps away from the historic Cable Car turnaround, Ghirardelli Square, and Pier 39 attractions.

A block of guestrooms has been reserved at the special UCSF conference rate of **\$131/night**. You are urged to make your reservations early. The cut-off date is **Monday, October 1, 2012** or until the group room block is filled.

To make hotel reservations, please call 800-942-7348 and identify yourself as a member of this UCSF conference to receive the special rate. You can also reserve on-line by visiting our website at [www.cme.ucsf.edu](http://www.cme.ucsf.edu) and clicking the reservation link in the Travel & Lodging section on the course webpage.

**By staying at the host hotel, you help UCSF meet its contractual obligations and keep registration fees reasonable. Please take this into consideration when making your accommodation decisions.**

#### RENTAL CAR

Hertz is offering special rates for participants of this conference; simply call 800-654-2240 and refer to convention number # 03BW0131 or call your travel agent. You may also make reservations at [www.Hertz.com](http://www.Hertz.com). Advance reservations are recommended.

#### AIR TRANSPORTATION

UCSF has negotiated special fares with American and United Airlines for our course attendees. You may use the following tour codes to book on your own:  
American (800) 433-1790 code: 77H2AZ  
United (800) 521-4041 code: 510CF

## OCCUPATIONAL AND ENVIRONMENTAL FACTORS IN NEUROLOGICAL DISEASE and OCCUPATIONAL AND ENVIRONMENTAL MEDICINE UPDATE

**October 31 - November 3, 2012**

**Holiday Inn Fisherman's Wharf • San Francisco, California**

Mail to : UCSF Office of CME  
P.O. Box 45368  
San Francisco, CA 94145-0368  
Fax: (415) 502-1795

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

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Last Name First M.I.

Degree Specialty

Address

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Email

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

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

Date of birth to be used as OCME registrant number: \_\_\_\_ / \_\_\_\_ / X X  
Month Day

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

REGISTRATION FEES (Receipt/Confirmation will be mailed within two to four weeks):

☐ **\$675** Physicians  
☐ **\$600** Allied Health Professionals/Residents/Fellows

**Optional Pre-Course Workshops (October 31) limited to (40) each**

**1.5 AMA PRA Category 1 Credits™**

Choose One Only

☐ **\$50** Electrophysiological Testing  
☐ **\$50** Neuropsychiatric Testing  
☐ **\$50** Neurological Examination

You must call or fax if you would like to register for **only** the Neurological or Occupational Medicine Sections.

**OE Factors in Neurological Disease Only (November 1)**

**7.75 AMA PRA Category 1 Credits™**

☐ **\$300** Physicians  
☐ **\$250** Allied Health Professionals/Residents/Fellows

#### Reception/Scientific Poster Session

Please confirm below so we may plan for the appropriate number of people: ☐ I will attend the reception (included in tuition) ☐ I will not attend

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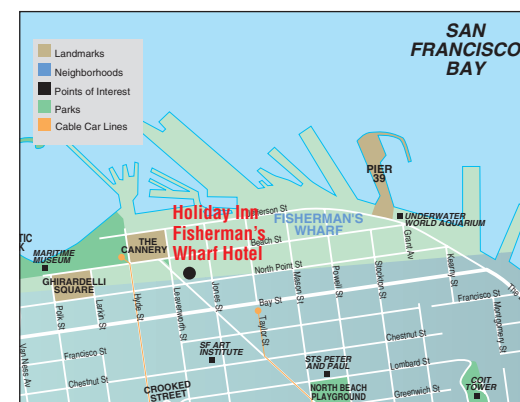
Name on Card (Please Print) \_\_\_\_\_ Authorized Signature \_\_\_\_\_

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.

Please check our website for up-to-date information on the course:  
[www.cme.ucsf.edu](http://www.cme.ucsf.edu)

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

Course Registration Form

general info

MDM13N01