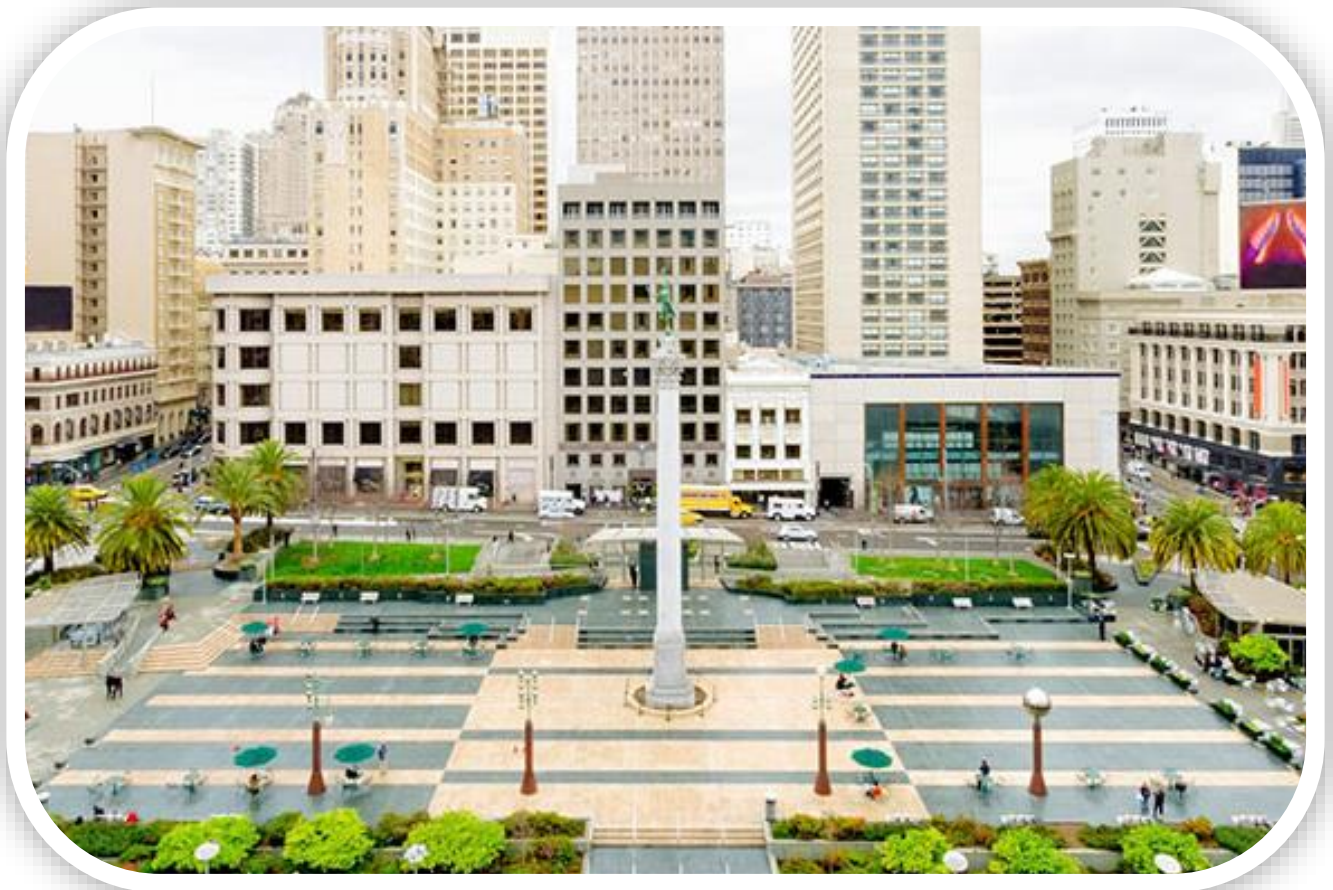


27th Annual CIHC Professional Development Seminar



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of workers and the community.*



December 4 – 6, 2017
JW Marriott San Francisco, Union Square
San Francisco, CA

CALIFORNIA INDUSTRIAL HYGIENE COUNCIL

2017 CIHC PDS Program Overview

“EHS Practice Evolving for 21st Century Issues”

MONDAY DECEMBER 4, 2017

<u>TIME</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
7:00-8:00 a.m.	Registration & Continental Breakfast	Metropolitan Pre-function
8:00 a.m.	Conference Opening	Metropolitan Ballroom
8:15 a.m.	Morning Session “Today’s Regulatory/Legislative Arena: Are You Prepared?”	Metropolitan Ballroom
10:00 a.m.	Exhibitor Demonstration and Exhibits	Metropolitan Pre-function
10:30 am	Morning Session (Cont.) “Today’s Regulatory/Legislative Arena: Are You Prepared?”	Metropolitan Ballroom
Noon-1:30 p.m.	KEYNOTE LUNCHEON – DR. JOHN HOWARD, DIRECTOR, NIOSH	Metropolitan Ballroom
1:30 p.m.	Afternoon Session “Emerging Issues”	Metropolitan Ballroom
3:15 p.m.	Exhibitor Demonstration and Exhibits	Metropolitan Pre-function
3:35 p.m.	Afternoon Session (Cont.) “Emerging Issues”	Metropolitan Ballroom
<i>5:15 p.m.</i>	<i>PDS Day One Adjourns</i>	
5:30-7:00 p.m.	CIHC Evening Social Event	Skyline A (21st Floor)

TUESDAY, DECEMBER 5, 2017

7:00-8:00 a.m.	Registration & Continental Breakfast	Metropolitan Pre-function
8:00 a.m.	Morning Session “Case Studies in Protecting Worker Health & Safety in the Global Economy”	Metropolitan Ballroom
9:50a.m.	Exhibitor Demonstration and Exhibits	Metropolitan Pre-function
10:20 a.m.	Morning Session (Cont.) “Case Studies in Protecting Worker Health & Safety in the Global Economy”	Metropolitan Ballroom
<i>Noon-1:30 p.m.</i>	<i>Lunch on your own</i>	
1:30 p.m.	Afternoon Session “Tomorrowland: The Future of IH ”	Metropolitan Ballroom
3:00 p.m.	Exhibitor Demonstration and Exhibits	Metropolitan Pre-function
3:30 p.m.	Afternoon Session (Cont.) “Tomorrowland: The Future of IH ”	Metropolitan Ballroom
<i>5:00 p.m.</i>	<i>PDS Day Two Adjourns</i>	

WEDNESDAY, DECEMBER 6, 2017

7:00-8:00 a.m.	Registration & Continental Breakfast	Metropolitan Pre-function
8:00 a.m.	Morning Session “Legal Issues and the CIH Role”	Metropolitan Ballroom
9:55 a.m.	Break	Metropolitan Pre-function
10:10 a.m.	Morning Session (Cont.) “Legal Issues and the CIH Role”	Metropolitan Ballroom
<i>Noon-1:15 p.m.</i>	<i>Lunch on your own</i>	
1:15 p.m.	Afternoon Session “Ethics for IH Practice”	Metropolitan Ballroom
3:20 p.m.	Conference Closing	Metropolitan Ballroom
<i>3:30 p.m.</i>	<i>PDS Adjourns</i>	

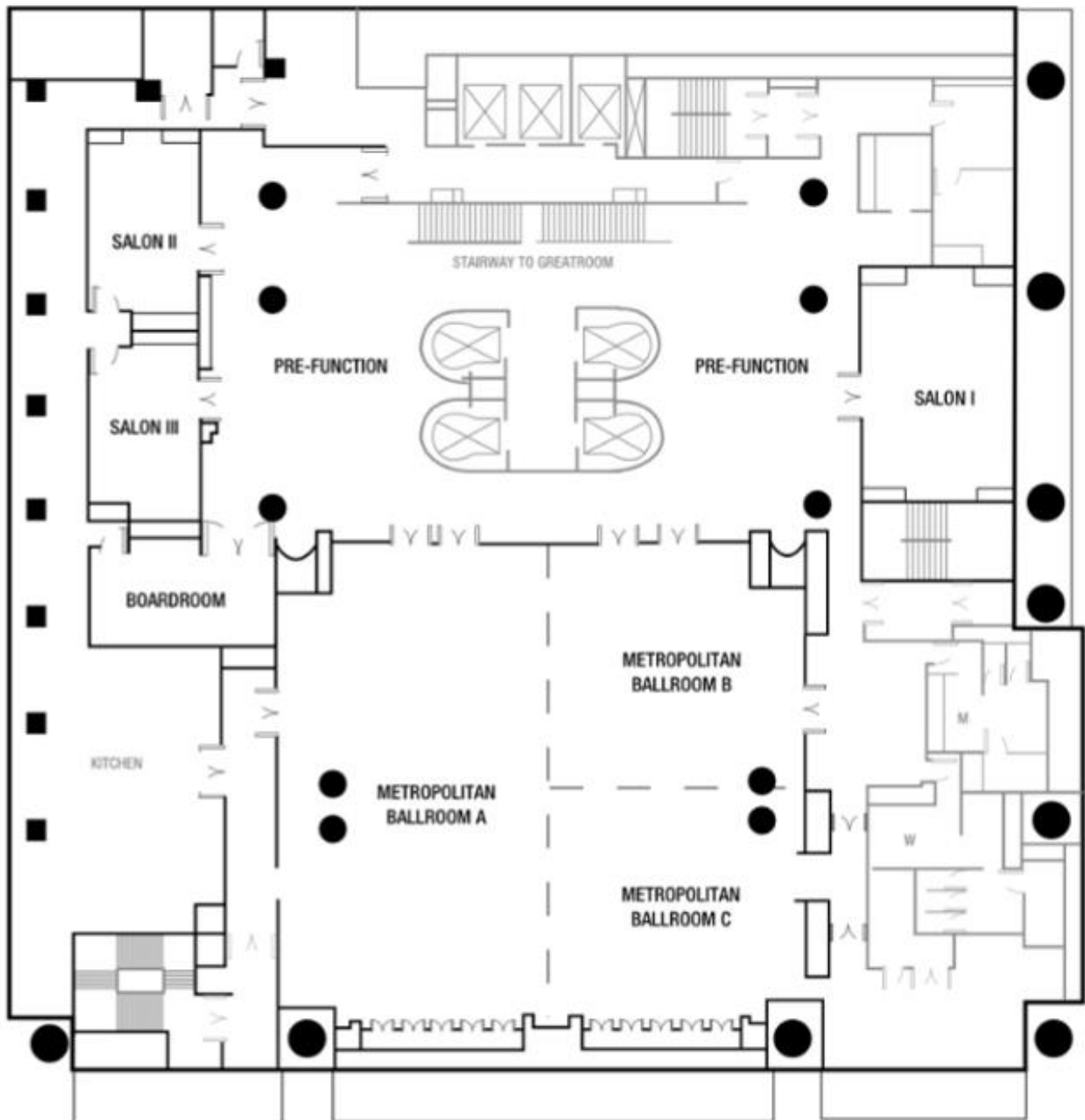
Note: For the detailed speaker agenda, please see the tab for each day

2017 CIHC PDS Event Floor Plan

Primary PDS events will be held in the Metropolitan Ballroom area, which is located on the 2nd Floor of the JW Marriott San Francisco Union Square.

Registration, continental breakfast, and exhibitor activities will be held in the Pre-function space and all speaker events will take place in the Metropolitan Ballroom (enter through A&B doors).

METROPOLITAN BALLROOM - 2ND FLOOR





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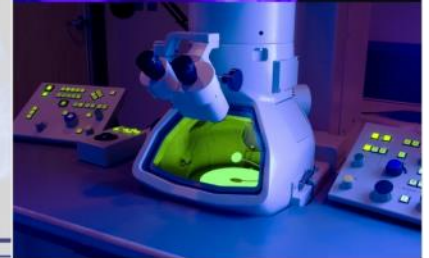
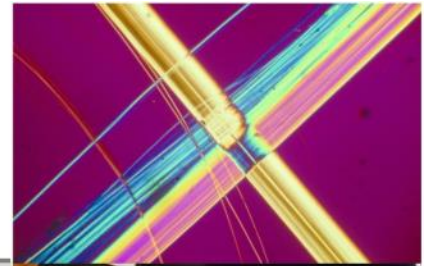
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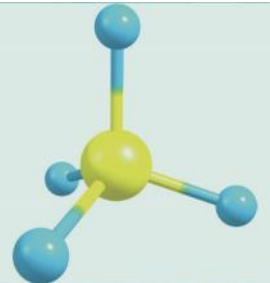


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PDS Welcome from CIHC President

November 30, 2017

Dear Colleagues:

On behalf of the California Industrial Hygiene Council Board, welcome to our 27th annual Professional Development Seminar (PDS, aka The Conference). This year's theme, "EHS Practice Evolving for 21st Century Issues", is one to take to heart! As you will see from our outstanding line up of speakers and their presentation titles, the role of the industrial hygienist is truly evolving and expanding!

It takes the hard work of many to plan and present the PDS. Thank you to our Conference Committee, speakers and sponsors for their incredible efforts and support! Without each and everyone, this event is not possible! When you have the opportunity, please thank them as well.

The CIHC represents California's five AIHA Local Sections at the California State Capitol in Sacramento and beyond, with a very clear mission:

- Promote the Industrial Hygiene profession in California.

- Increase recognition of Industrial Hygiene in legislative and regulatory actions.

- Promote and provide sound scientific and technologic input for the legislative and regulatory processes.

Back in 1990, a group of industrial hygienists met in Sacramento to talk about the state of the profession, learn about the legislative process, and how to influence it. They affixed buttons to their clothes with the phrase "What is an industrial hygienist?" and spent the day walking the Capitol corridors educating legislators and their staff about the profession. The results of these initial efforts ultimately led to Certified Industrial Hygienist (CIH) title protection, definition of industrial hygiene in the Business and Professions code, and additional regulatory and legislative recognition of the important role industrial hygienists play in the anticipation, recognition, evaluation, and control of hazards in the workplace and environment.

However, our work is not done. As new laws and regulations are proposed, it is important for industrial hygienists to continue to be active in the process and ensure our contributions continue to be recognized. The need to educate legislators and their staff about "What is an industrial hygienist?" is no less important today than it was two plus decades ago.

The CIHC Board can always use assistance. Please consider getting involved, or at least send an email with your thoughts and concerns! **The Board is actively seeking technical advisors.** The Board consults with technical advisors to gather information and details on specific issues that will assist the Board in commenting on proposed legislative bills and draft regulations. Technical advisors could also represent CIHC on Cal/OSHA Advisory Committees. ***What area of expertise is your professional passion?*** Contact your local CIHC Board member or me (530-622-7196) to let us know. All of our contact information is located on the CIHC website, www.cihconline.com.

I look forward to this annual opportunity to see you and catch up. I hope you find this year's PDS enjoyable, enlightening, and informative!

Sincerely,



Pamela Murcell, MS, CIH
President, California Industrial Hygiene Council

Overview of CIHC

Purpose

- Establish a legislative presence in the State Capitol through professional representation
- Keep the industrial hygiene professional intact by opposing any further erosion or limitation of practice by legislation or regulation
- Seek recognition in statutes defining, recognizing, and protecting the profession of industrial hygiene
- Provide sound scientific and technological input to the legislative and regulatory process

Legislative Services

- CIHC contracts with Sacramento Advocacy to provide legislative support and advocacy for our profession
- Professional legislative support is essential especially during the current state economic climate where many health and safety programs are or have been considered for elimination or modification
- CIHC Directors, representing the five local California sections of the American Industrial Hygiene Association (AIHA), volunteer their time to support CIHC activities

Activities

- Review and monitor legislation (in 2017, the CIHC Board screened several hundred bills and actively monitored over 50 bills which may impact the industrial hygiene profession)
- Sponsor legislation
- Review and comment on proposed regulations through participation in Advisory Committees
- Sponsor annual CIHC Conference/PDS
- Coordinate with AIHA National Governmental Affairs

Major Accomplishments

- Defined Industrial Hygienist in State Law (H&S Code 117672)
- Initiated and Sponsored the Industrial Hygienist Definition and Registration Act (B&P Code Sections 20700-20705)
- Established and maintained legislative presence in Sacramento
- Negotiated to reduce the number of days for lead training course for CIHs to three days
- Negotiated the exemption for Trauma Scene Waste Management Practitioner requirement
- Monitored rewrite of the Professional Engineers Act
- Sponsored laboratory accreditation legislation
- Sponsored successful legislation to allow a CIH or other qualified professional to provide lead poisoning prevention services
- Garnered strategic legislative amendments to the Toxic Mold Protection Act of 2001 assuring the participation of IH's in developing standards to identify, evaluate, and abate mold
- Provided comments on a wide range of proposed regulations: heat illness prevention, green chemistry, lead in construction and general industry, hazard communication, ergonomics (housekeeping in hotel and hospitality facilities), injury and illness prevention, respirable crystalline silica, permissible exposure limits

Annual CIHC Conference

- Provides a statewide forum to discuss issues of concern to the industrial hygiene profession
- Provides educational opportunities for industrial hygienists and allied professionals
- Strengthens ties and establishes alliances among the occupational health and safety professionals
- Provides an opportunity to consult, network, & collaborate among industrial hygienists and other professionals
- Raises funds to support the CIHC organization's legislative and regulatory advocacy activities

2017 CIHC Board Roster

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Ernst & Young
San Francisco, CA

Vicki Wells, MS, CIH, CSP
San Francisco Department of Health
San Francisco, CA

Chris Laszcz-Davis, MS, CIH, REPA,
FAIHA
The Environmental Quality Organization, LLC and Aluminium Consulting Engineers

Welcome from Conference Co-Chairs

Welcome to the 27th Annual CIHC Professional Development Seminar!

It is our pleasure to co-chair the 27th Annual California Industrial Hygiene Council's Professional Development Seminar in San Francisco, and to welcome our colleagues in the California environmental, health and safety community, including scientists, regulators and industry representatives. We hope you will enjoy this opportunity to meet and connect with your friends and colleagues from around California and elsewhere to discuss the ever-changing landscape of our profession and learn about best practices, while fulfilling your personal goals for attending this year's event.

We know that the success of the PDS ultimately depends on the many people who have worked with us in planning and organizing both the technical program and supporting social arrangements. In particular, we would like to thank the Session Arrangers for their diligence and well-placed suggestions on organizing the technical program; the PDS Committee for their hard work on planning and organizing the many logistical details, and our Sponsors who help us keep the "price of admission" reasonable for all participants.

In keeping with our "EHS Practice Evolving for the 21st Century" theme this year, we are endeavoring to do our part for a paperless conference. Accessing presentations and program materials will be electronic this year via the CIHC event website in the "Program Materials" tab. **You will need the user name conf2017 and password sanfran*2017 to access the information from the "Program Materials" tab.**

If you are collecting hours or points for your CIH or CSP professional certifications, be sure to sign in at the registration table when you pick up your badge to confirm the days of attendance and contact information for your event certificate. If you are collecting hours for the REHS professional certification, be sure to sign in at the registration table each day so that your attendance certificate reflects all days attended. Your certificate will be provided by email only.

Please feel free to connect with us, any of the CIHC Board members, or the committee volunteers if you have any questions about the program. We value your input on this year's event, and use our attendees' comments for improvements in the future. Please take a few minutes to complete PDS evaluations. We're returning to paper evaluations this year in an effort to gather feedback from more of our attendees, and as encouragement for you to complete the evaluations, you'll receive a raffle ticket in exchange for turning in a completed evaluation for each day.

We hope you enjoy this educational opportunity designed especially for you! Thank you for attending as we celebrate 27 terrific years of support for the California IH Community!



Pamela Murcell

**Conference Co-Chair
Sacramento Valley
Local AIHA Section**



Joel Cohen

**Conference Co-Chair
Northern California
Local AIHA Section**



Richard Hirsh

**Conference Co-Chair
Northern California
Local AIHA Section**

27th Annual CIHC PDS Committee

The CIHC Board would like to express its sincere appreciation to those who have donated their time and skill to making this professional development seminar a success. While the following list does not reflect all the resources tapped to make things work, it does reflect those who did much of the heavy lifting early on. Our many thanks to all!

COMMITTEE MEMBER	ROLE
Joel Cohen, Northern California Section	Conference Co-Chair (hotel & logistics)
Richard Hirsh, Northern California Section	Conference Co-Chair (sponsors/exhibitors)
Pamela Murcell, Sacramento Valley Section	Conference Co-Chair (program)
Gloria Chan, San Diego Section Grace Rinck, Southern California Section John Parente, Sacramento Valley Section	Onsite Registration
Deneen Barsi	Online Registration
Megan Canright, San Diego Section Ed Klinenberg, Sacramento Valley Section	Communications, Website Support
An Internet Store	Website Support
Richard Hirsh, Northern California Section Jaime Steedman-Lyde, Southern California Section	Exhibitors/Sponsors
Jim Unmack, Orange County Section	Audio/Projection
Samantha Chua, San Diego Section Gloria Chan, San Diego Section Megan Canright, San Diego Section	Conference Program Materials
Joel Cohen, Northern California Section	Conference Social Event
Nola Kennedy, Southern California Section	REHS contact hours
Joel Cohen, CIHC Treasurer	CIHC donation to AIHF on behalf of Speakers
Chris Laszcz-Davis, Northern California Section	Session Arranger
Dennis Robinson, Northern California Section	Session Arranger
Garrett Brown, Northern California Section	Session Arranger
Ben Kollmeyer, Southern California Section Joel Berman, Orange County Section	Co-Session Arranger Co-Session Arranger
Joel Berman, Orange County Section Pamela Murcell, Sacramento Valley Section	Co-Session Arranger Co-Session Arranger
Pamela Murcell, Sacramento Valley Section	Session Arranger

Notes of Interest

Handout Materials

Professional Development Seminar attendee binder and speaker presentations and materials were made available to the 2017 CIHC PDS attendees in advance. These files are available on the CIHC website at:

<https://www.cihconline.com/events>

Username: conf2017
Password: sanfran*2017

Additional materials may be added and all materials will be available following the conference for your convenience.

Attendance Certificates

Personalized certificates will be emailed following the conference to each attendee before December 31, 2017. Contact CIHC at cihconline@gmail.com, if you don't receive your attendance certificate.



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Conference Evaluations

We're returning to paper evaluations this year in an effort to gather feedback from more of our attendees, and as encouragement for you to complete the evaluations, you'll receive a raffle ticket in exchange for turning in a completed evaluation for each day

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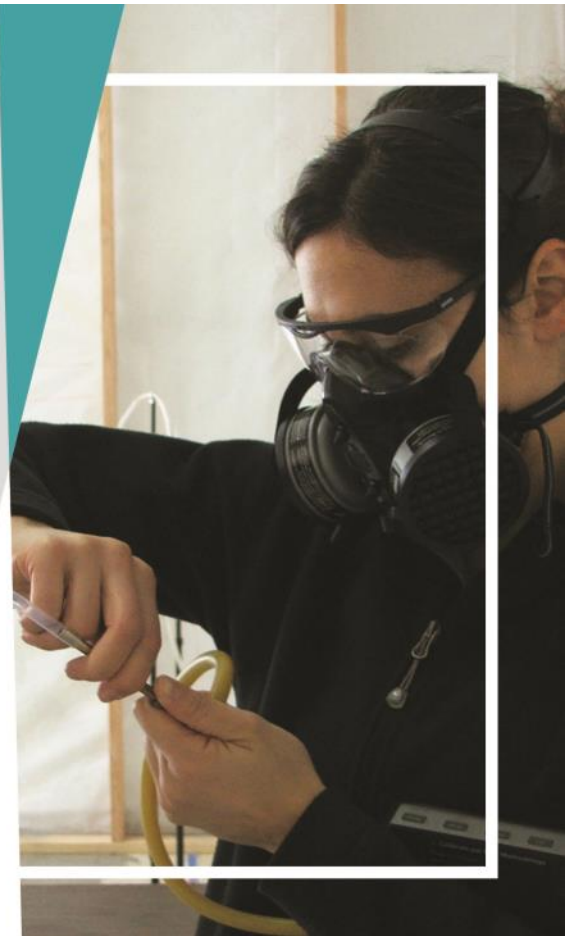
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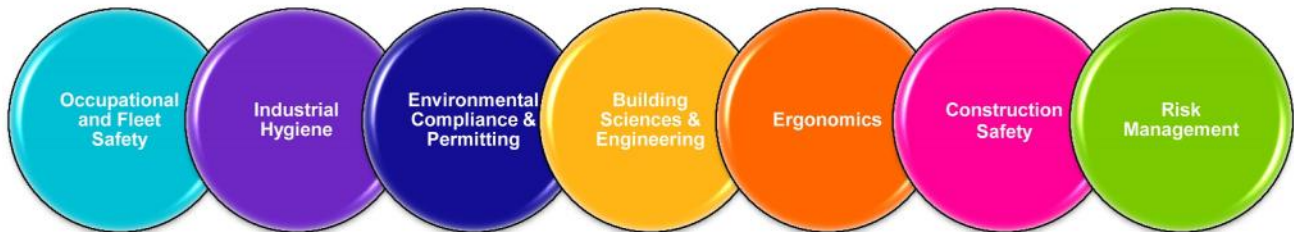
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- ✓ A corporate commitment to technical excellence and successful project completion.
- ✓ Creative, cost efficient solutions driven by value engineering, delivered on time and within budget.

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2017 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Monday, December 4, 2017

Morning Session Theme - "Today's Regulatory/Legislative Arena: Are You Prepared?"

7:00-8:00 a.m. Registration & Continental Breakfast

8:00 a.m. Event Welcome & CIHC Update — *Pamela Murcell, MS, CIH, Professional Development Seminar Co-Chair, CIHC Board President, KWA Safety & HazMat Consultants, Inc.*

8:15 a.m. Session Welcome & Speaker Introductions — *Chris Laszcz-Davis, MS, CIH, REPA, FAIHA, AIC Fellow, President, The Environmental Quality Organization, LLC, Former CIHC Board President,*

8:20 a.m. California Legislative Activity — *Catherine Barankin, CIHC Legislative Advocate, Executive Director, Sacramento Advocacy*

8:35 a.m. National AIHA—Its Aspirations and Challenges in Today's Climate — *Larry Sloan, CAE, Chief Executive Officer, American Industrial Hygiene Association*

9:10 a.m. Cal/OSHA Update and Progress— *Juliann Sum, JD, ScM, Chief, Division of Occupational Safety & Health (Cal/OSHA), CA Department of Industrial Relations*

10:00 a.m. Exhibitor Demonstration and Exhibits

10:30 a.m. California Department of Public Health Update — *Barbara Materna, PhD, CIH, Chief, Occupational Health Branch, CA Department of Public Health*

11:15 a.m. Can Federal OSHA Withstand the Injury?: The Trump Administration's Impact on Worker Protection Rules--*Peggy Otum, JD, Arnold & Porter Kaye Scholer, LLP*

Noon-1:30 p.m. KEYNOTE LUNCHEON – "INDUSTRY 4.0: EVOLVING EHS PRACTICE "
DR. JOHN HOWARD, DIRECTOR, NIOSH

Afternoon Session Theme - "Emerging Issues"

1:30 p.m. Session Chair Welcome and Introductions — *Dennis M. Robinson, D.Env., CIH, Program Manager, Pacific States Environmental Contractors*

1:35 p.m. New Technology for Air Sampling: Are You Ready for the Internet of Things (IoT)? — *Ron McMahan, BSIE, Director of Business Development and Innovation SGS Galson Laboratories, Inc.*

2:25 p.m. The New Frontier in Naturally Occurring Asbestos: Elongate Mineral Particles-Applying a Mega Data Set to Solve Major Constructability Issues at the Calaveras Dam — *Dan Hernandez, MPH, CIH, NOA Manager, Calaveras Dam Replacement Project, Dragados Flatiron Sukut JV / Bradley Erskine, Ph.D. PG, CEG, CHg, Principal Geologist, Kleinfelder, Compliance Manager – Naturally Occurring Asbestos Program, Calaveras Dam Replacement Project*

3:15 p.m. Exhibitor Demonstration and Exhibits

Continued.....

2017 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Monday, December 4, 2017

- 3:35 p.m. Occupational Health and Safety Hazards in the Cannabis Industry — CDR Bradley S. King, PhD, MPH, CIH, NIOSH Western States Division
- 4:25 p.m. Worker Health and Safety Apps for Smart Phones — Gino Fazio, Office of the Director, NIOSH
- 5:15 p.m. Conference Day 1 adjourns
- 5:30-7:00 p.m. Evening Social—Skyline A (21st Floor)

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California Industrial Hygiene Council **Update**

Pamela Murcell, MS, CIH

CIHC Board President

President and Principal Consultant, KWA Safety & HazMat Consultants, Inc

Pamela Murcell is a Certified Industrial Hygienist and the President of KWA Safety & HazMat Consultants, Inc. with 37 years professional experience. Prior to assuming her current position in 1996, she was Corporate Health and Safety Director for Brown and Caldwell Consulting Engineers and also worked for the State of California in the Cal/OSHA Program and the Toxic Substances Control Program.

Ms. Murcell is the current President of CIHC and a Director for the AIHA Sacramento Valley Section, and previously served as secretary, president, and director for the AIHA Sacramento Valley Section from 1984-1996. She also served as a representative for her employer on the American Consulting Engineers Council Hazardous Waste Action Coalition Health and Safety Subcommittee from 1989-1997, during which she served as vice-chair and chair from 1992-1996. She was an ambassador for the Sacramento Metropolitan Chamber of Commerce during 2000-2003.

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California Legislative Activity

Catherine Barankin

CIHC Legislative Advocate
Executive Director, Sacramento Advocacy

Catherine has been a professional advocate for over thirty-eight years, and established the lobbying firm Sacramento Advocacy in 1977. She has received numerous awards for her advocacy work and is a frequent guest speaker at conferences and public policy workshops. She has also been a columnist for the Sacramento Bee.

In addition to representing the interests of the California Industrial Hygiene Council before the Legislature and state agencies, Catherine also conducts advocacy trainings, and along with her husband, Dr. Joseph Barankin, is the author of "The Advocacy Handbook".

Ms. Barankin's background prior to lobbying included serving as the Director of Public Relations for Southern California College, Assistant Editor of Forum 50 magazine and television news reporting for Channel 50 in Southern California. While attending college, Catherine majored in speech and communications and was awarded the Bell Scroggins Award as the "Most Outstanding Woman Debater in the Nation". She was selected as the commencement speaker and was the recipient of the Alumni Hall of Fame award from her college for her outstanding legislative accomplishments. Catherine's volunteer activities include membership on the YMCA of Superior California Board of Directors and on the YMCA Youth and Government Board. She also was a founding board member of the Sacramento Court Appointed Special Advocates (CASA), a program which represents dependent children in the juvenile court system.

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National AIHA– Its Aspirations and Challenges in Today’s Climate

Larry Sloan, CAE

Chief Executive Officer
American Industrial Hygiene Association

Lawrence “Larry” Sloan stepped into the role of CEO at the American Industrial Hygiene Association (AIHA) in October, 2016. Prior to this, he served as President/CEO for seven years at the Society of Chemical Manufacturers and Affiliates (SOCMA), representing the interests of the US specialty chemical industry. Larry served as President of the Adhesive and Sealant Council from January 2005 to February 2010. Mr. Sloan joined the Council in 2001 as Director Member Services, and was promoted to Senior Director in 2004.

Larry began his career as a chemical engineer at Air Products and later worked for Nalco Chemical Company in marketing, manufacturing and sales capacities.

Larry graduated magna cum laude from the University of Pennsylvania with a BS in Chemical Engineering. Later he returned to the Kellogg Graduate School of Management at Northwestern University where he earned his MBA.

In 2006, Larry received his Certified Association Executive (CAE) designation through the American Society of Association Executives. He is a former board member of the Societe de Chemie Industrielle, the Chemical Heritage Foundation’s Joseph Priestly Society, the Chemical Educational Foundation and the National Association of Manufacturers’ Council of Manufacturing Associations, where he served as chairman in 2012.

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Cal/OSHA Update and Progress

Juliann Sum, JD, ScM

Chief
Cal/OSHA

Juliann Sum was appointed Cal/OSHA Chief by Governor Edmund G. Brown Jr. on December 3, 2014, after serving as Acting Chief since September 2013 and Special Advisor to Director Christine Baker since May 2012. Previously, Ms. Sum served at the University of California, Berkeley from 1994 to 2012 as a project director with the Institute for Research on Labor and Employment and an attorney and industrial hygienist with the Labor Occupational Health Program. Her extensive experience includes work as an attorney with the Environmental Law Foundation and a private law firm and as an industrial hygienist and business representative with the International Brotherhood of Electrical Workers Local 1245.

Ms. Sum earned a Juris Doctor degree (with honors) from the University of California, Hastings College of the Law, a Master of Science degree in environmental health sciences from Harvard University, School of Public Health, and a Bachelor of Science degree in biophysics from Brown University.

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California Department of Public Health **Update**

Barbara Materna, PhD, CIH

Chief
Occupational Health Branch

Barbara Materna, PhD, CIH, is the Chief of the Occupational Health Branch, in the California Department of Public Health. Dr. Materna is a Certified Industrial Hygienist with over 30 years of occupational health experience working for the most part in state and local government public health programs. She holds a Ph.D. in Environmental Health Sciences from UC Berkeley, M.S. in Environmental Health Sciences from Hunter College, City University of New York, and B.S. in Chemistry from the University of Rochester. Her work has focused on diverse topics including occupational lead poisoning prevention, wildland firefighter exposures, injuries among refuse collectors, lung disease related to flavoring chemicals, and the use of respiratory protection for prevention of aerosol transmissible diseases.

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Can Federal OSHA Withstand the Injury?: The Trump Administration's Impact on Worker Protection Rules

Peggy Otum, JD

Arnold & Porter Kaye Scholer, LLP

Peggy Otum has well over a decade of experience representing clients on complex environmental issues at the federal and state level, having practiced in DC for several years and currently practicing in San Francisco. Her practice focuses on advising companies, universities and trade organizations on a broad range of environmental compliance and enforcement matters, including matters involving federal and California OSHA, California's Green Chemistry Initiative, and state product stewardship and extended producer responsibility legislation.

Ms. Otum is a vice chair of the ABA Business Law Section Environmental Committee. She is also a member of the Leadership Advisory Committee of the National Women's Law Center (NWLC) and an ardent supporter of women leaders in business and law. In addition to her work with NWLC, Ms. Otum has helped cultivate Arnold & Porter Kaye Scholer's San Francisco WomenConnect program, which provides a forum for San Francisco Bay Area women lawyers and senior-level clients to network and learn from each other. She was recently featured on Working Mother magazine's list of "The 2015 Working Mothers of the Year."



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CIHC 2017

Conference Evaluations

We're returning to paper evaluations this year in an effort to gather feedback from more of our attendees, and as encouragement for you to complete the evaluations, you'll receive a raffle ticket in exchange for turning in a completed evaluation for each day

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Keynote Luncheon Speaker

John Howard, MD, MPH, JD, LLM

Director
NIOSH

John Howard is the Director of the National Institute for Occupational Safety and Health in the U.S. Department of Health and Human Services. Dr. Howard also serves as the Administrator of the World Trade Center Health Program in the U.S. Department of Health and Human Services. Dr. Howard was first appointed NIOSH Director in 2002 during the George W. Bush Administration and served in that position until 2008. In 2008 and 2009, Dr. Howard worked as a consultant with the U.S. Government's Afghanistan Health Initiative. In September of 2009, Dr. Howard was again appointed NIOSH Director in the Barak Obama Administration.

Prior to his appointments as NIOSH Director, Dr. Howard served as Chief of the Division of Occupational Safety and Health in the State of California's Labor and Workforce Development Agency from 1991 through 2002.

Dr. Howard received a Doctor of Medicine degree from Loyola University of Chicago, a Master of Public Health degree from the Harvard School of Public Health, a Doctor of Law degree from the University of California at Los Angeles, and a Master of Law degree in Administrative Law and Economic Regulation from The George Washington University in Washington, D.C.

Dr. Howard is board-certified in internal medicine and occupational medicine. He is admitted to the practice of medicine and law in the State of California and in the District of Columbia, and he is a member U.S. Supreme Court bar. He has written numerous articles on occupational health law and policy.

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New Technology for Air Sampling

Ron McMahan, BSIE

Director of Business Development and Innovation
SGS Galson Laboratories, Inc.

Mr. McMahan's work history includes Total Safety, where he was General Manager, Amrel Inc., where he was COO and VP Technical Operations, The Air Guys, where he was President and CEO of two subsidiaries, JNB Innovation LLC, where he was President and CEO, Aim Safe-Air Products, where he was President and Director of air quality instrumentation design, including some patented sensor technology, Flo-Tron where he was VP and Technical Director for instrumentation system engineering, and Fisher Controls, where he started his career as a field engineer.

Ron has a Bachelors' from the Dept. of Industrial Engineering, Texas Tech University, and his 28+ year career has included locations in Canada, Texas and other areas of the US, and has focused on instrumentation design and application, specializing in air monitoring and sampling instrumentation for the purpose of health and safety.

Ron is a Certified Indoor Air Quality Technician through the Dept. of Mycology at Texas Tech University, and a Mold Assessment Consultant through the Texas Department of Health Services.

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Case Study: Big Data Use for Analyses of Consequences

Dan Hernandez, MPH, CIH

NOA Manager

Dragados Flatiron Sukut JV Calaveras Dam Replacement Project

Mr. Hernandez is a Certified Industrial Hygienist with over 30 years of experience in industrial hygiene and environmental health risk assessment. Mr. Hernandez is currently managing the Naturally Occurring Asbestos program for the \$500 million dollar Calaveras Dam Replacement Project in northern California. Dan has over 36 years of experience in the areas of environmental health and safety, hazardous materials management, industrial hygiene, toxicology, compliance program development and environmental risk assessment. Dan is published in peer reviewed scientific journals in the subject areas of Exposure Modeling/Risk Assessment and Tracer Gas Technology. His articles have appeared in the American Industrial Hygiene Association (AIHA) Journal and the Semiconductor Association Safety Journal.

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Case Study: Big Data Use for Analyses of Consequences

Bradley Erskine, Ph.D., PG, CEG, CHg

Principal Geologist, Kleinfelder
Compliance Manager—Naturally Occurring Asbestos Program
Calaveras Dam Replacement Project

Dr. Bradley Erskine is a Professional Geologist with over 28 years of experience in the field of asbestos and the occurrence of chrysotile and amphibole Elongate Mineral Particles in their natural environment. He holds an undergraduate degree in geology from UCLA, a Master's Degree from San Diego State University with a specialty in paleomagnetism and rock magnetism, and a doctorate degree from the University of California at Berkeley in geology with a specialty in structural geology, metamorphic petrology and mineralogy. He was the founder and president of a consulting asbestos testing laboratory, and has conducted NOA investigations and response actions for school districts, surface mines, developers, railroads, and public transportation agencies. He is an expert at mapping geological formations where rocks have a potential for the occurrence of fibrous minerals. In cooperation with the U. S. Geological Survey, he is currently publishing a series of geological maps in southern California, including the Asbestos Mountain quadrangle located in the Santa Rosa Mountains above Palm Springs. Dr. Erskine is currently managing a \$30M asbestos monitoring and compliance program for the Calaveras Dam Replacement Project in northern California, the largest construction project involving EMPs ever undertaken.

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Health & Safety Issues Associated with Cannabis Cultivation



CDR Bradley S. King, PhD, MPH, CIH

NIOSH Western States Division
U.S. Public Health Service

Bradley King works as an industrial hygienist at the National Institute for Occupational Safety and Health (NIOSH). He holds a Master of Public Health degree in Environmental and Occupational Health from Saint Louis University, and a PhD in Environmental Health Sciences from Johns Hopkins University. Dr. King joined NIOSH as an industrial hygienist in 1999 in the Health Hazard Evaluation (HHE) program, in Cincinnati, Ohio, responding to requests from workers, employers, and union officials to evaluate occupational exposures at worksites across the country. He received his commission as an Environmental Health Officer in the U.S. Public Health Service in 2002, currently holding the rank of Commander, and received his certification in the comprehensive practice of industrial hygiene in 2005. Since 2013, he has worked in NIOSH's Western States Division in Denver, Colorado; current research interests include evaluating occupational exposures in the upstream oil and gas, shipyards, and cannabis industries. He currently serves as Past President of the Rocky Mountain Section of AIHA and as a Director on the National AIHA Board of Directors.

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Worker Health and Safety Apps for Smart Phones

Gino Fazio

Visual Information Specialist
Office of the Director
NIOSH

Gino Fazio is a Visual Information Specialist in the Office of the Director at the National Institute for Occupational Safety and Health, a federal agency responsible for conducting research to reduce worker illness and injury. He has 12 years of experience specializing in human-centered design and currently serves as technical advisor to staff and contractors concerning the effective translation and dissemination of scientific research. Gino received a Bachelor of Arts in Visual Communication with an emphasis in Entrepreneurship from Northern Kentucky University. His interests include identifying unexplored pathways and knowledge gaps in research translation through the use of new technologies and communication strategies.

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The graphic features a blue background with white chemical structures. It includes images of a scientist in a lab coat and respirator, an oil rig, a person in a hazmat suit, and a gavel on a document. The text is presented in colored, rounded rectangular boxes.

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2017 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Tuesday, December 5, 2017

Morning Session Theme - "Case Studies in Protecting Worker Health & Safety in the Global Economy"

7:00-8:00 a.m. Registration & Continental Breakfast

8:00 a.m. Session Chair Welcome and Introductions — *Garrett Brown, MPH, CIH, FAIHA, Coordinator, Maquiladora Health & Safety Support Network, Berkeley*

8:10 a.m. Occupational Health & Safety Assessment: Small Factories in Dhaka, Bangladesh — *Gary Bangs, MPH, CIH, Retired, University of Washington, Seattle*

9:00 a.m. Mobilizing Consumers to Wear their Values — *Ayesha Barenblat, MPP, Founder, Remake, San Francisco*

9:50 a.m. Exhibitor Demonstration and Exhibits

10:20 a.m. The Good News and the Bad News on Working Conditions in Electronics Supply Chains — *Michael Rohwer, Associate Director, Business for Social Responsibility, San Francisco*

11:10 a.m. CSR's global failure to protect workers – Case study of Hansae Vietnam — *Garrett Brown, MPH, CIH, FAIHA, Coordinator, Maquiladora Health & Safety Support Network, Berkeley*

Noon-1:30 p.m. Lunch on Your Own

Afternoon Session Theme - "Tomorrowland: The Future of IH "

1:30 p.m. Session Chair Welcome and Introductions — *Ben Kollmeyer, MPH, CIH, Chief Science Officer, Forensic Analytical Consulting Services, Inc. / Joel I. Berman, CIH, CSP, CIAQM, Vice President, Health Science Associates*

1:35 p.m. Megatrends and AIHA's Content Priorities — *Ben Kollmeyer, MPH, CIH, Principal and Chief Science Officer, Forensic Analytical Consulting Services, Inc.*

2:20 p.m. The Value of an EHS Management of Change Process – *Richard Hirsh, MPH, CIH, FAIHA, Director, Environmental Health and Safety, Nektar Therapeutics*

3:00 p.m. Exhibitor Demonstration and Exhibits

3:30 p.m. The Exposure Science Frontier — *Jennifer Sahmel, MPH, CIH, CSP, Insight Exposure and Risk Sciences*

4:15 p.m. How Monitor Alarm Set Points Affect Real World Operator Level Behaviors — *Bob Comer, District Manager, Industrial Scientific*

5:00 p.m. Conference Day Two Adjourns

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Occupational Health Mission in Bangladesh for Doctors Without Borders (Medicins Sans Frontiers /MSF)

Gary Bangs, MPH, CIH
Retired, University of Washington, Seattle

Captain Bangs was a Commissioned Officer in the US Public Health Service for 25 years. He worked in Indian Health Service clinics, provided occupational health services and consultation in the Pacific Northwest, and was a chemical risk assessor at the US EPA. Gary also led the development of several exposure assessment and risk assessment guidance documents for the EPA. After his US PHS career, he worked as a consultant industrial hygienist for Bureau Veritas in Seattle, and later managed a worker safety unit at the University of Washington. When Doctors Without Borders (Medicins sans Frontiers/MSF) sent out a proposal in 2016 for industrial hygiene consultation in Bangladesh, Gary responded. Last December-January he spent six weeks in Dhaka BD performing occupational hazard assessments and developing ways for the MSF team to help build safety awareness in the slum factories of Dhaka.

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Mobilizing Consumers to Wear their Values



Ayesha Barenblat, MPP

Founder
Remake, San Francisco

Ayesha (@abarenblat) is a social entrepreneur with a passion for building sustainable supply chains that respect people and our planet. With over a decade of leadership to promote social justice and sustainability within the fashion industry, she founded Remake to ignite a conscious consumer movement. Remake's films, stories and immersive journeys rebuild human connections with the women who make our clothes. Ayesha is passionate about where things come from, who made them and what their lives are like. She has worked with brands, governments, and labor advocates to improve the lives of the women who make our clothes.

She led brand engagement at Better Work, a World Bank and United Nations partnership to ensure safe and decent working conditions within garment factories around the world. She was head of consumer products at BSR, providing strategic advice to brands including H&M, Levi Strauss & Co., Marks and Spencer, Nike, The Walt Disney Company and Pou Chen on the design and integration of sustainability into business. She holds a master in public policy degree from the University of California, Berkeley.

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The Good News and The Bad News on Working Conditions in Electronics Supply Chains

Michael Rohwer

Associate Director
Business for Social Responsibility, San Francisco

Michael leads BSR's work with companies in the information and communications technology (ICT) industry. Before joining BSR, Michael was the senior program director as the Electronic Industry Citizenship Coalition (EICC) and acted as the director for the Conflict-Free Sourcing Initiative. He also served in the U.S. Environmental Protection Agency's (EPA) climate change and stratospheric protection divisions, focusing on mitigation and reporting for greenhouse gas emissions. In addition, he previously worked for a sustainability consulting firm in Hong Kong.

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CSR's Global Failure to Protect Workers— Case Study of Hansae Vietnam



Garret Brown, MPH, CIH, FAIHA

Coordinator

Maquiladora Health and Safety Support Network, Berkeley

Garrett Brown has a Master in Public Health degree from UC Berkeley and is a Certified Industrial Hygienist. He worked for Cal/OSHA as a field compliance officer for 18 years, and then 2.5 years in Cal/OSHA Headquarters as the Special Assistant to Chief Ellen Widess, before retiring from state service in 2014. Since 1993, Brown has been the volunteer Coordinator of the Maquiladora Health & Safety Support Network. The MHSSN is comprised of 300 occupational health professionals who have volunteered time and expertise to provide grassroots worker and community organizations in the developing world with OHS information, training and technical assistance. Brown has coordinated projects in Bangladesh, Central America, China, Indonesia, Mexico and Vietnam over the last 25 years.

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Megatrends and AIHA's Content Priorities

Ben Kollmeyer, MPH ,CIH

Principal and Chief Science Officer
Forensic Analytical Consulting Services, Inc

Ben has over 20 years of experience in the environmental health arena, conducting investigations involving exposures to a variety of physical, chemical and biological hazards in occupational and community settings. He is frequently called upon to provide forensic analysis as an expert witness and to manage risk communication issues with stakeholder groups in high-profile building investigations. Mr. Kollmeyer routinely participates in the development of environmental health industry guidance documents and assists clients in creating and implementing related prevention and management programs. As Chief Science Officer, Ben provides direction on the technical development of FACS services and staff.

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The Value of an EHS Management of Change Process



Richard Hirsh, MPH, CIH, FAIHA

Director, Environmental Health and Safety
Nektar Therapeutics

Richard is certified in the comprehensive practice of industrial hygiene and currently works as the Director of EH&S for Nektar Therapeutics, a biopharmaceutical firm focused on cancer and pain medication development with operations in the U.S. and India. Prior to his current position, Richard served as Global Safety and Industrial Hygiene Manager for Stiefel Laboratories, a GSK Company which is a dermatological pharmaceutical firm with operations in Ireland, Mexico, Brazil, Pakistan, Singapore, Australia, and the U.S. Richard previously worked for Rohm and Haas Company in the Global EHS and Sustainable Development department for 20 years. He was responsible for industrial hygiene technical assistance to over 120 locations worldwide, training EHS staff at those locations, developing corporate policies and standards, and conducting compliance audits on EHS issues.

Richard currently serves as a California Industrial Hygiene Council representative for the Northern California local AIHA section. Richard is a past chair of the International Affairs Committee of the AIHA and served as chairperson for the planning committees of the AIHA Asia Pacific Conferences held in both Kuala Lumpur, Malaysia in 2014 and Singapore in 2013. Richard is a Past-President of the Northern California Section of the American Industrial Hygiene Association and serves as founder and chairperson of the Developing World Outreach Initiative.

Richard attended the University of California at Berkeley, School of Public Health, Environmental Health Sciences Industrial Hygiene Program where he received his M.P.H. degree in 1986. He received a biology degree from Lafayette College. On behalf of the International Affairs Committee, Richard received the Soaring Star Award in 2014. On behalf of the Developing World Outreach Initiative, Richard received the Social Responsibility Award from the AIHA in 2012, and the AIHA Fellow Award in 2011. He also received the Christine Einert Award from the Northern California Section of AIHA in 2011. He received the Distinguished EHS Scientist recognition from Rohm and Haas Company in 2004 and received the EJ Skorpinski Memorial Award from Rohm and Haas Company in 1993.

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The Exposure Science Frontier

Jennifer Sahmel, MPH, CIH, CSP

Principal Health Scientist
Insight Exposure and Risk Sciences

Jennifer Sahmel is a Principal Health Scientist at Insight Exposure and Risk Sciences, Inc. in Boulder, Colorado. She works on a wide range of projects related to human health exposure and risk assessment. She is a Certified Industrial Hygienist and a Certified Safety Professional with over 20 years of experience in exposure assessment science and workplace health and safety. Her areas of expertise include exposure reconstruction, qualitative and quantitative dermal exposure assessment methods, human health risk assessment, Bayesian decision analysis, EPA exposure assessment tools, Proposition 65 health risk assessment, product stewardship and sustainability issues, industrial hygiene monitoring and data analysis, and safety and occupational health management methods. Prior to Insight, she worked at Cardno ChemRisk, the National Park Service, and the U.S. EPA's Office of Pollution Prevention and Toxics in Washington, DC as well as NASA's Goddard Space Flight Center and FMC Corporation. Jennifer earned her MPH degree in Environmental Health and Industrial Hygiene from the University of California at Berkeley in 1996 and is currently working on her PhD in Environmental Health Science at the University of Minnesota. She is also active in the American Industrial Hygiene Association and is former a member of their national board of directors.

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How Monitor Alarm Set Points Affect Real World Operator Level Behaviors

Bob Comer

District Manager – Northern California
Industrial Scientific Corporation

Bob received his undergraduate degree from UCLA in Biology and went on to Graduate School where he was a Teaching Assistant for Human Anatomy and Physiology and did research on the toxicity of artificial atmospheres.

After Grad School, he worked in Contract Office Furniture designing and selling major office systems. He started a company in Sacramento that employed over 50 people. When he left Office Furniture he became the manufacturer's representative for the Howard Miller Company and worked for Howard Miller for over 15 years.

Bob has been a District Manager for Industrial Scientific for over 10 years covering California, Nevada and Arizona. In addition to being a frequent speaker for CWEA he does Gas Monitor and Gas Hazard Training for industries as diverse as Oil and Gas, Water and Waste Water, and Mining and Underground Mine Rescue.

2017 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Wednesday, December 6, 2017

Morning Session Theme - "Legal Issues and the CIH Role "

7:00-8:00 a.m. Registration & Continental Breakfast (*Cortez Ballroom, Buffet in Cabrillo Loft*)

8:00 a.m. Session Chair Welcome and Introductions— *Joel I. Berman, CIH, CSP, CIAQM, CIHC Board Vice-President, Health Science Associates / Pamela Murcell, MS, CIH, CIHC Board President, KWA Safety & HazMat Consultants, Inc.*

8:05 a.m. Prop 64 – Legalized Marijuana Impact on Work Place Policies — *Christopher Onstott, Attorney, Kronick Moskowitz Tiedemann & Girard*

9:05 a.m. "The Office" – A workers' compensation perspective on employment and safety, including non-traditional work spaces — *Jeannette Herrera, JD, Associate Attorney, Hanna Brophy MacLean McAleer and Jensen*

9:55 a.m. Break

10:10 a.m. Update on Asbestos Litigation: Where are we now? – *Sonja E. Blomquist, Attorney and Managing Shareholder, Low, Ball & Lynch*

11:00 a.m. A Review of Hearing Loss Compensation Claim Outcomes in Light of Advanced Statistical Analysis Techniques for Determining Work-Relatedness — *Rob Brauch, President, Occupational Health and Safety Solutions, Inc.*

Noon-1:30 p.m. Lunch on Your Own

Afternoon Session Theme - "Ethics for IH Practice"

1:15 p.m. Session Chair Welcome and Introductions — *Pamela Murcell, MS, CIH, CIHC Board President, KWA Safety & HazMat Consultants, Inc.*

1:20 p.m. Case Studies for IH Ethics – *Mark Katchen, CIH, FAIHA, Managing Principal, The Phylmar Group, Inc.*

3:20 p.m. Closing Remarks — *Pamela Murcell, MS, CIH, Conference Co-Chair, CIHC Board President, KWA Safety & HazMat Consultants, Inc.*

3:30 p.m. Conference Ends

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San Francisco, California

December 4-6, 2017



Prop 64—Legalized Marijuana Impact on Work Place Policies

Christopher Onstott

Attorney

Kronick Moskowitz Tiedemann & Girard

Mr. Onstott focuses on employment litigation and commercial litigation. He has defended employers in employment litigation, including defending against race, sex, and disability discrimination and harassment claims, as well as wage and hour violations. He also has litigated numerous commercial cases, including cases involving misappropriation of trade secrets, product liability, insurance bad faith, and breach of contract claims.

Prior to joining Kronick, Mr. Onstott worked in the Sacramento office of a statewide labor and employment law firm representing California employers. Mr. Onstott also completed a clerkship on the United States Court of Appeals, Third Circuit for Judge Walter K. Stapleton.

Mr. Onstott previously lived in Argentina for two years and is fluent in Spanish.

Employment Litigation

- Represented Safelite Group, Inc. in successful defense of discrimination claims brought against company by former employee.
- Represented Governor Arnold Schwarzenegger, the Department of Personnel Administration, the California Board of Unemployment Insurance Appeals, and the Employment Development Department in writ of mandate action. Received total defense judgment on behalf of all respondents.
- Obtained summary judgment and judgment on the pleadings in favor of client city in civil rights action brought by police officer alleging various constitutional violations. The district court's ruling was affirmed by the United States Court of Appeals for the Ninth Circuit.
- Obtained summary judgment against an employee alleging disability discrimination, wrongful termination and constructive discharge against an employer.
- Successfully mediated numerous employment and business disputes, including employment discrimination claims and wage-and-hour class actions.
- Represented California employers on how to protect trade secrets and on compliance with California wage-and-hour laws, including meal and rest breaks, expense reimbursement, leaves of absence and other California employment laws.
- Successful defense of class action alleging improper payment of wages and reimbursement of expenses.
- Conducted numerous Spanish language witness interviews and investigations.

Commercial Litigation

- Represented Arco Arena, Inc. and Maloof Sports & Entertainment, Inc. in defense of disability discrimination claims.
- Represented Nor-Cal Beverage Co., in defense of trade dress claims brought against Go Girl Energy drink.
- Represented California-based joint powers insurance authority in insurance bad faith action.
- Successfully opposed an application for temporary restraining order and preliminary injunction in a "bet-the-company" action alleging misappropriation of trade secrets.
- Represented municipalities in several lawsuits against bus manufacturers.
- Part of trial team that litigated a five-week trial on behalf of a Sacramento business who alleged misappropriation of trade secrets, breach of joint venture agreement, and interference with contract against two national corporations.

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“The Office”
A Workers’ Compensation Perspective on
Employment and Safety, including
Non-traditional Work Spaces

Jeannette Herrera, JD

Associate Attorney—Rancho Cordova (Sacramento)
Hanna Brophy MacLean McAleer and Jensen

Jeannette Herrera is an associate at Hanna Brophy MacLean McAleer and Jensen. She practices extensively in all areas of workers’ compensation, including Labor Code section 132(a) discrimination and Serious and Willful Misconduct claims. She represents insurance companies, the California Insurance Guarantee Association, employers, cities, counties, hospitals and school districts. She has first-chaired multiple trials, including whether injuries arose out of the course of employment, post-termination claims and on complex legal issues. In one of her successful cases, the Appeals Board issued a binding en banc panel decision invalidating a subsection in the California Code of Regulations as it was inconsistent with the Labor Code.

She has appeared before a majority of the Workers’ Compensation Appeals Boards throughout both Northern and Southern California and has been involved in various cases in superior court and the Eastern District.

Ms. Herrera earned her undergraduate degree from California State University, Northridge and received her Juris Doctor from the University of Pacific, McGeorge School of Law.

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Update on Asbestos Litigation: Where are we now?

Sonja E. Blomquist

Attorney and Managing Shareholder
Low, Ball & Lynch

During the 34 years I have worked for Low, Ball & Lynch, I have handled over 3,000 asbestos cases, for over 150 different clients and I have tried multiple cases to verdict. I love my job, even more now that I am the Managing Shareholder. Car accident cases in the 1980's gave me early trial experience. Then I worked for contractor and developer clients in construction defect litigation. I began handling asbestos cases in the mid-'80's, and I have led the Environmental Team at Low, Ball and Lynch since then.

Venues of our cases include San Francisco, Alameda, Los Angeles, Solano, Shasta, Orange County, San Diego, and Sacramento. Other toxic tort claims add some spice! Mold, silica, dry cleaning solutions, VOC's, sodium hypochlorite, and others round out the count.

Representing public entities in asbestos cases enables the use of Government Code defenses that can get results. In a recent wrongful death case against a regional transportation entity, plaintiff's attorney engaged in intensive discovery requiring a search of decades old records. When plaintiff died, her attorney filed an untimely wrongful death claim and we collected our dismissal. The maze of bureaucracy nets important information from each source to create a comprehensive defense.

How did I get here? During a family vacation to Colorado, we drove to the top of Pikes Peak and I saw snow in the summer! Growing up in the Midwest, I knew snow in the summer was impossible, and decided that Colorado was enchanted. I returned for college and graduated from the University of Colorado with a Phi Beta Kappa key. San Francisco beckoned me farther west and I graduated from Hastings in 1981, joining the bars of California and Colorado. At Hastings, I worked for the California Supreme Court, the U.S. Attorney General's office and the University of California Attorney General's office. After a one year clerkship with Judge Aurel Kelley at the Colorado Court of Appeals, I joined Low, Ball & Lynch in 1982.

My travels include Africa, Scandinavia, Australia, New Zealand, Japan, France, Malaysia, Costa Rica, Belize, Brazil and Cuba. The Wild West of North America is still my favorite! Since I already live in San Francisco, I left my heart in Paris.

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A Review of Hearing Loss Compensation Claim Outcomes in Light of Advanced Statistical Analysis Techniques for Determining Work-Relatedness

Rob Brauch

President

Occupational Health and Safety Solutions, Inc.

Rob Brauch has been involved in the development of advanced noise and vibration monitoring instrumentation for Industrial Hygiene, Safety and Environmental applications with three companies: Metrosonics, Larson Davis, and Casella. He is currently Founder and President of Occupational Health and Safety Solutions, Inc.

He is a 30+ year member of AIHA, serving on the Noise Committee since 2000, and was Chair in 2004. He is also a member of the Real Time Detection Systems Committee and Ergonomics Committee.

Rob is also a member of ASSE, the Institute of Noise Control Engineering (INCE), the National Hearing Conservation Association (NHCA) and the Acoustics Society of America. He is also a CAOHC-Accredited Occupational Hearing Conservationist.

Currently Chair of the ASA/ANSI S.1 Standards Working Group 7, Personal Noise Dosimeters, he also served on the SAE Technical Committee on Powered Hand Tools – Ergonomics, Safety Noise and Vibration.

In addition to speaking at professional conferences and technical workshops such as the AIHA Fall Conference, Safety 2016 and the NIOSH DREAM workshop (Direct Reading Exposure Assessment Methods), Mr. Brauch has published numerous articles on Hearing Conservation, Personal and Area Noise Exposure Assessment methods, Noise Control and related topics.

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Case Studies for IH Ethics

Mark Katchen, CIH, FAIHA

Managing Principal
The Phylmar Group, Inc.

Mark Katchen is the Managing Principal for The Phylmar Group, Inc. with expertise in industrial hygiene, toxicology, occupational health, risk communication, professional ethics and sustainable supply chain practices. His consulting expertise includes helping organizations optimize the EHS/Sustainability function by focusing on mission alignment, resource allocation and utilization, business process improvement, and demonstrating the value of EHS/Sustainability to the organization. He also has extensive litigation support expertise having testified in numerous cases involving a wide variety of chemical and biological agents.

He received his B.A. in Psychobiology from UCLA, M.S. in Environmental and Occupational Health from California State University, Northridge, and M.B.A. from Loyola Marymount University. He is a Certified Industrial Hygienist. Mr. Katchen has more than 30 years of experience in occupational and environmental exposure assessment in a variety of industries.

Mr. Katchen has taught at the University of California, Los Angeles and Irvine campuses. He also serves on the California State University, Northridge Department of Environmental and Occupational Health Advisory Board. He is a past chair of the American Industrial Hygiene Association's International Affairs Committee, current Scholarship Committee Chair for the Occupational Hygiene Training Association, and is Vice Chair of the AIHA's Joint Industrial Hygiene Ethics Education Committee. Mark is also an AIHA Distinguished Fellow. He is an AIHA Distinguished Lecturer who frequently lectures to business and academic groups on environmental risk assessment, management, communication, ethics and sustainable business practices and is the author of several published technical and business-related articles.

Final Notes

Certificate of Attendance

This certifies that

Personalized **certificates will be emailed**
following the conference
to each attendee by **December 31, 2017.**

Contact CIHC at cihconline@gmail.com,
if you don't receive your attendance certificate
by December 31, 2017.

CIHC 2017

Conference Evaluations

We're returning to paper evaluations this year in an effort to gather feedback from more of our attendees, and as encouragement for you to complete the evaluations, you'll receive a raffle ticket in exchange for turning in a completed evaluation for each day

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