

29th Annual CIHC Professional Development Seminar



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improve the health and safety
of workers and the community.*



December 4-6, 2019
InterContinental Mark Hopkins
San Francisco, California

CALIFORNIA INDUSTRIAL HYGIENE COUNCIL

2019 CIHC PDS Program Overview

Wednesday, December 4, 2019

<u>TIME</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
7:00-8:00 a.m.	Registration and Continental Breakfast	Lobby Terrace/ Room of the Dons
8:00 a.m.	Morning Session “Today’s Regulatory/Legislative Arena: New Momentum”	Peacock Court
10:00 a.m.	Exhibitor Demonstration and Exhibits	Lobby Terrace/ Room of the Dons
10:30 a.m.	Morning Session “Today’s Regulatory/Legislative Arena ...” (continued)	Peacock Court
Noon-1:30 p.m.	KEYNOTE LUNCHEON – Dr. John Howard, MD, MPH, JD, LLM, Director, NIOSH	Peacock Court
1:30 p.m.	Afternoon Session “Global Outreach”	Peacock Court
3:15 p.m.	Exhibitor Demonstration and Exhibits	Lobby Terrace/ Room of the Dons
3:35 p.m.	Afternoon Session “Global Outreach” (continued)	Peacock Court
<i>5:15 p.m.</i>	<i>Conference Day One Ends</i>	

Thursday, December 5, 2019

7:00-8:00 a.m.	Registration and Continental Breakfast	Lobby Terrace/ Room of the Dons
8:00 a.m.	Morning Session “Emerging Issues”	Peacock Court
9:50 a.m.	Exhibitor Demonstration and Exhibits	Lobby Terrace/ Room of the Dons
10:20 a.m.	Morning Session “Emerging Issues” (continued)	Peacock Court
<i>Noon-1:30 p.m.</i>	<i>Lunch on your own</i>	
1:30 p.m.	Afternoon Session “When CG Isn't an Option: News and Entertainment Industry Hazards”	Peacock Court
3:00 p.m.	Exhibitor Demonstration and Exhibits	Lobby Terrace/ Room of the Dons
3:35 p.m.	Afternoon Session “When CG Isn't an Option ...” (continued)	Peacock Court
<i>5:00 p.m.</i>	<i>Conference Day Two Ends</i>	
5:30-7:00 p.m.	Evening Social	Room of the Dons

Friday, December 6, 2019

7:00-8:00 a.m.	Registration and Continental Breakfast	Lobby Terrace/ Room of the Dons
8:00 a.m.	Morning Session “Dustborne Exposures”	Peacock Court
9:55 a.m.	Break	
10:10 a.m.	Morning Session “Dustborne Exposures” (continued)	Peacock Court
<i>Noon-1:10 p.m.</i>	<i>Lunch on your own</i>	
1:10 p.m.	Afternoon Session “Climate Change”	Peacock Court
4:15 p.m.	Closing Remarks	Peacock Court
<i>4:30 p.m.</i>	<i>Conference Ends</i>	

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

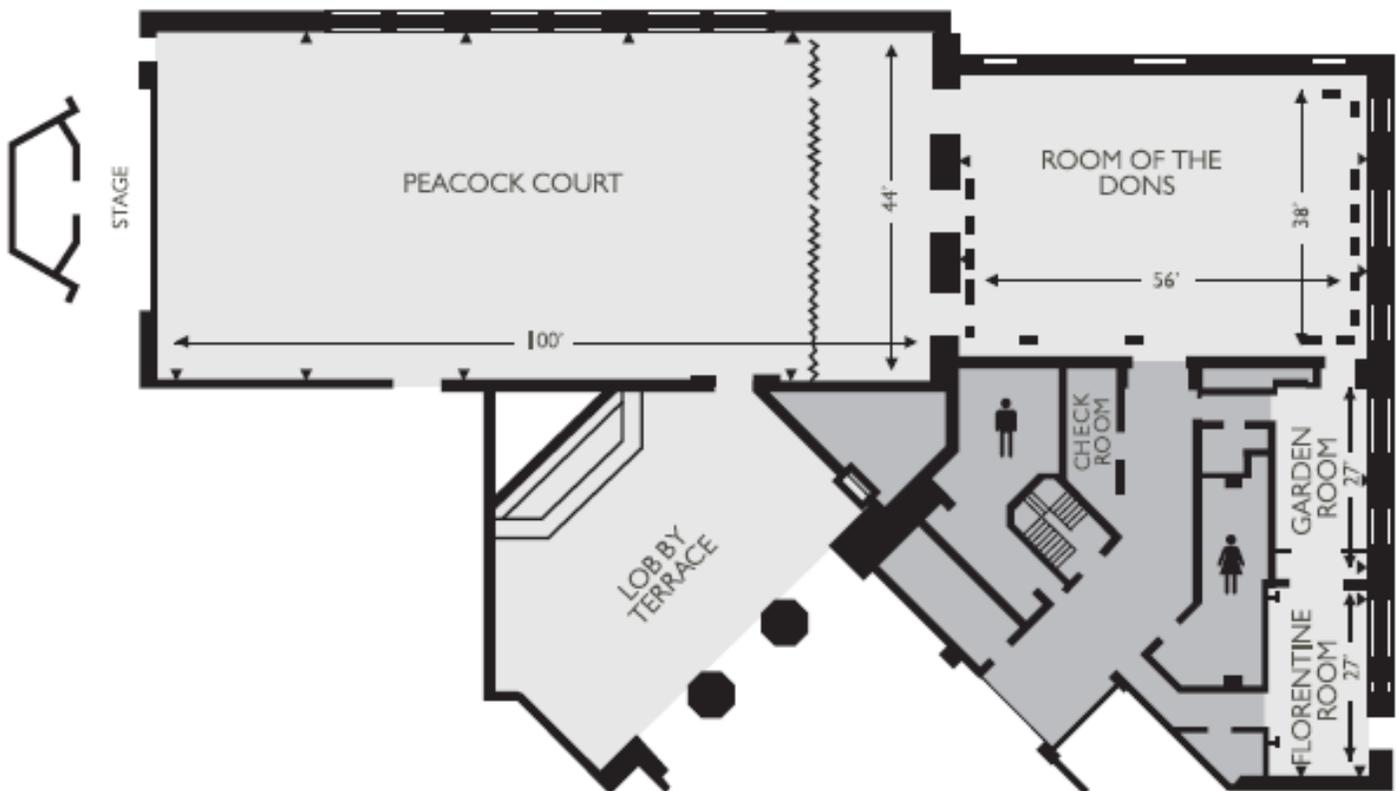
2019 CIHC PDS Event Floor Plan

Primary PDS events will be held in the Peacock Court (main conference area).

The registration and sign-in table will be available in the Lobby Terrace, which is located just beyond the hotel lobby.

Continental breakfast and exhibitor activities will be held in the Room of the Dons, with some exhibitors also located in the Lobby Terrace.

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PDS Welcome from the CIHC President

November 22, 2019

Dear Colleagues:

On behalf of the California Industrial Hygiene Council Board, welcome to our 29th annual Professional Development Seminar (PDS). 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! We are looking forward this year to hearing from some of our young professionals as they are willing to share important information from early in their careers!

It takes the hard work of many to plan and present the PDS. Thank you to our Conference Committee, speakers, exhibitors and sponsors for their incredible efforts and support! Without each and every one, 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, and to 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 never done. As new laws and regulations are proposed and as new legislators come and go, it is important for industrial hygienists to continue to be active in the process and to 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 almost three decades ago! I'll provide a summary of our work for 2019 in this year's CIHC update.

The CIHC Board represents you. The Board is regularly in need of 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, <https://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! Thank you for your participation.

Sincerely,



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

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 2019, the CIHC Board screened several hundred bills and actively monitored and/or took a position on over 60 bills which potentially impacted the industrial hygiene profession)
- ✓ Sponsor legislation
- ✓ Review and comment on proposed regulations through participation in Advisory Committees
- ✓ Sponsor annual CIHC Professional Development Seminar
- ✓ Coordinate with AIHA National Government 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)
- ✓ 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, lead in construction and general industry, ergonomics (housekeeping in hotel and hospitality facilities), injury and illness prevention, permissible exposure limits, surgical plume, protection from wildfire smoke

Annual CIHC Professional Development Seminar

- ✓ 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 OEHS 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

CIHC Board Roster

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Welcome from the Event Co-Chairs

Welcome to the 29th Annual CIHC Professional Development Seminar!

It is our pleasure to co-chair the 29th Annual California Industrial Hygiene Council's Professional Development Seminar (PDS) in San Francisco, and to welcome all of our colleagues in the California environmental, health, and safety community, including scientists, regulators, industry representatives, and everyone else who battles every day to keep people safe and healthy. 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. Hopefully, you will also be able to make new friends and connections during this three day PDS.

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.

This year, we are continuing to do our part for the environment in making this a mostly paperless conference. As with last year's PDS, accessing presentations and program materials will be electronic this year via the CIHC event website (<https://www.cihconline.com/events>) in the "Program Materials" tab. **You will need user name conf2019 and password sanfran*2019 to access the information from the "Program Materials" tab.**

Also following in the footsteps of last year, we are including free WiFi for this year's PDS. The WiFi Network is **Cal Hygiene Council** and the access code is **hygiene19** (all lower letters, no space). While we are making it easy to **responsibly** surf the web, PLEASE come up for air and give our presenters respect for their presentations.

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. As always 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. Since we had such a wonderful response, we're staying with the paperless on-line evaluations this year in an effort to continue to save trees (PLEASE COMPLETE THEM, WE WOULD HATE TO HAVE TO GO BACK TO THE PAPER VERSION AND KILL TREES AGAIN). The evaluations allow us to gather important feedback from our attendees so that we can provide the best PDS possible. The link to the evaluations is a survey which can be accessed at <https://CIHOnline.com/event-evaluation>.

We hope you enjoy this educational opportunity designed especially for you! Thank you for attending as we celebrate 29 terrific years of support for the California IH Community!



Joel Berman

Conference Co-Chair

Orange County Local AIHA Section



Joel Cohen

Conference Co-Chair

Northern California Local AIHA Section



Richard Hirsh

Conference Co-Chair

Northern California Local AIHA Section



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29th 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 Berman, Orange County Section	Conference Co-Chair – Program
Joel Cohen, Northern California Section	Conference Co-Chair – Hotel & Logistics
Richard Hirsh, Northern California Section	Conference Co-Chair – Exhibitors & Sponsors
Gloria Chan, San Diego Section Grace Rinck, Southern California Section John Parente, Sacramento Valley Section	On-Site Registration
Gloria Chan, San Diego Section	Online Registration
Ed Klinenberg, Sacramento Valley Section	Communications/Website Support
An Internet Store	Website Support
Richard Hirsh, Northern California Section	Exhibitors/Sponsors
Laurel Davis, Northern California Section Ed Klinenberg, Sacramento Valley Section	Audio/Projection
Laurel Davis, Northern California Section Gloria Chan, San Diego Section Pam Murcell, Sacramento Valley Section	Conference Program Materials
Joel Cohen, Northern California Section	Conference Social Event
Nola Kennedy, Southern California Section	REHS Contact Hours
Gloria Chan, CIHC Treasurer	CIHC Donation to AIHF on behalf of Speakers
Chris Laszcz-Davis, Northern California Section	Session Arranger
Garrett Brown, Northern California Section	Session Arranger
Pam Murcell, Sacramento Valley Section	Session Arranger
Megan Canright, San Diego Section Grace Rinck, Southern California Section	Co-Session Arranger Co-Session Arranger
Jaime Steedman-Lyde, Southern California Section	Session Arranger



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PDS Attendee Information

Thank you for joining us in celebration of 29 years of excellence by attending the CIHC Annual Professional Development Seminar!

Registration and Sign-In

The registration and sign-in table will be available at 7:00 a.m. each day in the Lobby Terrace, outside of the Peacock Court (the conference room) on the first floor of the hotel. Complete program materials are only available electronically (see below for access). A copy of the daily schedule will be available at the registration table.

The PDS sessions will start at 8:00 a.m. in the Peacock Court (the conference room), and includes lunch on Wednesday with our keynote speaker, Dr. John Howard. WiFi will be available in the conference area.

Program Materials

Professional Development Seminar program information, including presentation files, are available on the CIHC website at: <https://www.cihconline.com/events>. Click on the "Program Materials" tab and log in with:

Username: **conf2019**

Password: **sanfran*2019**

Attendance Certificates

Attendance at the Professional Development Seminar is eligible for continuing education certification points with ABIH and BCSP. REHS accreditation has been received through the sponsorship of the UCLA-LOSH program. Personalized certificates will be emailed following the conference to each attendee by December 31, 2019. Contact CIHC at cihconline@gmail.com if you don't receive your attendance certificate.

WiFi Access (available in the conference room)

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Social Event

CIHC and several sponsors are hosting a social networking event at the InterContinental Mark Hopkins in the Room of the Dons (main exhibitor area), on Thursday evening, 5:30-7:00, immediately following the day's sessions.

Please join us! Drink tickets will be provided at the door.

Take our Survey

CIHC 2019 Professional Development Seminar

Evaluations are available online via your computer or mobile device at:

<https://CIHConline.com/event-evaluation>



2019 CIHC PROFESSIONAL DEVELOPMENT SEMINAR

Wednesday, December 4, 2019

Morning Session Theme – “Today’s Regulatory/Legislative Arena: New Momentum”

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

8:00 a.m. Welcome — *Joel Berman, CIH, CSP, CIAQM, CAC, Conference Co-Chair; CIHC Board Vice-President; Vice-President, Health Science Associates*

8:05 a.m. CIHC Update — *Pamela Murcell, MS, CIH, CIHC Board President; President, KWA Safety & HazMat Consultants, Inc.*

8:15 a.m. Session Chair Welcome and Introductions — *Chris Laszcz-Davis, MS, CIH, COH, 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*

8:40 a.m. National AIHA—Moving Boundaries — *John Mulhausen Ph.D., CIH, CSP, Vice-President, American Industrial Hygiene Association*

9:15 a.m. CA Partnership for Young Worker Health & Safety: Initiatives to Keep Our Next Generation Safe — *Diane Bush, MPH, Program Director, Labor Occupational Health Program (LOHP)*

10:00 a.m. Exhibitor Demonstration and Exhibits

10:30 a.m. Cal/OSHA Standards Board—A Look at Mission, Organization and Rulemaking Projects — *Dave Thomas, Board Chair; Christina Shupe, Executive Director; Mike Manieri, Principal Safety Engineer*

11:15 a.m. CA Department of Public Health Update: Addressing Both Old and New Workplace Hazards — *Barbara Materna, PhD, CIH, Chief, Occupational Health Branch, CA Dept. of Public Health*

Noon-1:30 p.m. KEYNOTE LUNCHEON

“The U.S. Opioid Epidemic: Occupational Health Perspectives” – John Howard, MD, MPH, JD, LLM, Director, NIOSH

Afternoon Session Theme – “Global Outreach”

1:30 p.m. Session Chair Welcome and Introductions — *Garrett Brown, MPH, CIH, FAIHA, Maquiladora Health & Safety Support Network, Berkeley, CA*

1:35 p.m. Five Years of Success by the Bangladesh Accord in Improving Garment Factories — *Garrett Brown, MPH, CIH, FAIHA, Maquiladora Health & Safety Support Network, Berkeley, CA*

2:25 p.m. Worker-Driven Social Responsibility – An Effective Alternative to CSR — *Elena Arengo, Senior Corporate Accountability Analyst, International Labor Rights Forum, Washington, DC*

3:15 p.m. Exhibitor Demonstration and Exhibits

3:35 p.m. UC Berkeley Student Presentations:

- (1) *“Heat Regulations and Adverse Health Effects in Global Garment Factories” – Kyle Peerless*
- (2) *“OHS in Vietnam – Lessons from a Summer Internship” – Patton Nguyen, MPH*

4:25 p.m. Hyper Transparency in Global Supply Chains: Bringing Worker and Consumer Voices to the Forefront — *Samantha Hartsock, MBA, Community Director, Remake, San Francisco, CA*

5:15 p.m. Conference Day One Ends

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29th Annual CIHC PDS

San Francisco, California

December 4-6, 2019



California Legislative Activity

Catherine Barankin

CIHC Legislative Advocate
Executive Director, Sacramento Advocacy

Catherine has been a professional advocate for over forty years, establishing 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".

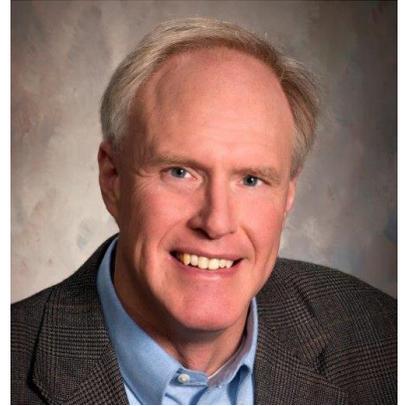
Catherine's volunteer activities include membership on the YMCA Youth and Government Board and the Wing Institute, a policy research organization devoted to strategies to serve special needs children and youth. She also was a founding board member of the Sacramento Court Appointed Special Advocates (CASA), a program which represents dependent children in the juvenile court system.

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National AIHA—Moving Boundaries



John Mulhausen Ph.D., CIH, CSP

President-Elect

American Industrial Hygiene Association

John Mulhausen Ph.D., CIH, CSP, retired in 2018 from 3M where he worked for 31 years in a variety of global health and safety risk management roles, most recently as Director of Corporate Safety and Industrial Hygiene. He has authored / co-authored over 100 presentations, publications or professional development courses in forums throughout the world and contributed advice and expertise on various working committees sponsored by NIOSH, AIHA, ACGIH, and the National Academy of Sciences' Institute of Medicine. John is an adjunct assistant professor at the University of Minnesota, a Fellow of the AIHA, and recipient of ABIH's Lifetime Achievement Award as well as AIHA's Edward J. Baier Technical Achievement and Henry F. Smyth Awards.

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CA Partnership for Young Worker Health & Safety: Initiatives to Keep Our Next Generation Safe



Diane Bush, MPH

Program Coordinator, Labor Occupational Health Program
University of California, Berkeley

Diane Bush is a Program Coordinator for the Labor Occupational Health Program (LOHP) at UC Berkeley, and has over 30 years' experience as an occupational and environmental health educator. She received her Masters' in Public Health from UC Berkeley. Her work has focused on young worker health and safety, and support for health and safety programs and training in small businesses, workforce development programs, and schools. Projects include program planning and evaluation, materials development, training, policy work, and intervention research.



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Cal/OSHA Standards Board— A Look at Mission, Organization and Rulemaking Projects

David Thomas

Board Chair

California Occupational Safety and Health Standards Board

Mr. David Thomas has been a business representative for the Northern California District Council of Laborers since 2009. Previously, Thomas was a business agent for the Laborers Local Union #73 from 2001 to 2009, and from 1994 to 2001, was a business representative for the Northern California District Council of Laborers. Prior to that, he was a business representative for the Laborers Local Union #73 from 1987 to 1994. Mr. Thomas is a member of the San Joaquin Building Trades Council.

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Cal/OSHA Standards Board— A Look at Mission, Organization and Rulemaking Projects



Christina Shupe

Executive Director

California Occupational Safety and Health Standards Board

Christina Shupe was appointed by the California Occupational Safety and Health Standards Board to serve as their Executive Officer in 2018, leading staff operations and growing the Board's outreach efforts to the regulated public. Prior to joining the Cal/OSHA Standards Board staff, Ms. Shupe served as the Director for the Citizens Redistricting Commission (CRC), an independent state agency tasked with drawing California's statewide voting districts. During her tenure, the CRC established a reputation for transparency and was named the winner of the Roy and Lila Ash Award for Public Engagement from Harvard University. At the Cal/OSHA Standards Board she has continued to prioritize improved outcomes through engagement and stakeholder advocacy.

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Cal/OSHA Standards Board— A Look at Mission, Organization and Rulemaking Projects

Michael J. Manieri, Jr.

Principal Safety Engineer
California Occupational Safety and Health Standards Board

After earning a Bachelor's degree in Biomedical Engineering/Biology (premedical studies) from the New York Institute of Technology in 1973, he earned a Master's Degree in Occupational and Environmental Health- Industrial Hygiene, from the Wayne State University, School of Medicine, Detroit, Michigan in 1976.

Mr. Manieri has worked at the California Occupational Safety and Health Standards Board (Board) as an Associate Safety Engineer from 1985 to 1992 and as a Senior Safety Engineer from 1992 to 2000. In 2000 Mr. Manieri became the Board's Principal Engineer, a position he currently holds. His responsibilities include the management and project planning for 6 senior level safety engineers and the development of technically complex occupational safety standards enforced throughout workplaces in California.

Prior to his employment with the Board, Mr. Manieri was employed by the Division of Occupational Safety and Health as an associate industrial hygienist with the Division of Occupational Safety and Health (compliance), the Governor's Office of Emergency Services, and the Toxic Substances Control Division of Cal-EPA as a hazardous materials specialist. Prior to joining the Board in 1985, Mr. Manieri spent several years in the private sector that included employment with SRI International, Employee Benefits Insurance Company as a Corporate Industrial Hygienist, a Bay Area worker compensation carrier, and the electronics industry which included director of Health and Safety for Avantek Inc., Of Santa Clara, and staff occupational safety and health specialist for Applied Materials, Inc. Mr. Manieri was the Program Manager of the Sacramento office of Safety Specialists Inc., of Santa Clara, California from 1984-1985.

Mr. Manieri has also had the opportunity to apply his expertise while serving the community as a member of the City of Sacramento's Toxic Substances Commission (1985-1988) under then Mayor Ann Rudin.

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CA Department of Public Health Update: Addressing Both Old and New Workplace Hazards



Barbara Materna, Ph.D., CIH

Chief, Occupational Health Branch
California Department of Public Health

Barbara Materna, Ph.D., CIH is the Chief of the Occupational Health Branch, in the California Department of Public Health, a position she has held for the last 17 years. Dr. Materna is a Certified Industrial Hygienist whose career in occupational health has primarily been in state and local government public health programs. Some of the worker health topics she has studied include perchloroethylene in dry cleaning, exposures to wildland firefighters, occupational lead poisoning, lung disease in flavor manufacturing workers, aerosol transmissible diseases, and Valley fever. She has a Ph.D. in Environmental Health Sciences from the University of California at Berkeley.

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The U.S. Opioid Epidemic: Occupational Health Perspectives



John Howard, MD, MPH, JD, LLM

Director

National Institute of Occupational Safety and Health

John Howard is the Director of the National Institute for Occupational Safety and Health, and the Administrator of the World Trade Center (WTC) 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 2009, Dr. Howard worked as a consultant with the US-Afghanistan Health Initiative. In September of 2009, Dr. Howard was again appointed NIOSH Director, and was reappointed for a third six-year term in 2015.

Prior to his appointments as NIOSH Director and WTC Health Program Administrator, 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 earned a Doctor of Medicine from Loyola University of Chicago; a Master of Public Health from the Harvard University School of Public Health; a Doctor of Law from the University of California at Los Angeles; and a Master of Law in Administrative Law and Economic Regulation, and a Master of Business Administration in Healthcare Management, both degrees 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, policy and law.

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Five Years of Success by the Bangladesh Accord in Improving Garment Factories



Garrett Brown, MPH, CIH, FAIHA

Founder

Maquiladora Health & Safety Support Network

Garrett Brown is a Certified Industrial Hygienist and an AIHA Fellow. He worked for 20 years for Cal/OSHA as a field compliance inspector, and then in DOSH Headquarters as Special Assistant to then-Chief Ellen Widess, before retiring from state service in 2014. In 1993, Brown founded the Maquiladora Health & Safety Support Network and has been its volunteer Coordinator ever since. He has coordinated workplace safety projects with grassroots worker and community organizations in Mexico, Central America, Indonesia, China and Bangladesh.

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Worker-Driven Social Responsibility – An Effective Alternative to CSR

Elena Arengo

Senior Corporate Accountability Analyst
International Labor Rights Forum

Elena Arengo joined the International Labor Rights Forum (ILRF) in April 2017 as Senior Corporate Accountability Analyst, advocating for worker-led models for corporate accountability in supply chain industries, with a particular focus on the apparel and seafood industries. She is author of “Future of Fashion: Worker-led strategies for corporate accountability in the global apparel supply chain”. Previously, she was Chief Technical Advisor for the ILO/IFC’s Better Work program in Nicaragua, where she established and coordinated a national program to monitor and improve conditions in the apparel export manufacturing industry in coordination with national trade unions, employers, government and multinational brands. She has also previously worked on capacity-building programs for workers on labor rights and corporate accountability in several countries throughout the world, particularly Latin America, Bangladesh and Cambodia.

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Heat Regulations and Adverse Health Effects in Global Garment Factories



Kyle Peerless

Graduate Student
University of California, Berkeley

Kyle Peerless is currently pursuing his MPH at UC Berkeley in Environmental Health Sciences with an industrial hygiene focus. He will graduate with his MPH in May 2020 after having received his Bachelor of Science in mechanical engineering from Loyola Marymount University in 2015. He gained initial experience as an industrial hygiene intern for Chevron Corporation in the summer of 2015.

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OHS in Vietnam – Lessons from a Summer Internship



Patton Nguyen, MPH

Recent Graduate

University of California, Berkeley

Patton Nguyen is a graduate from the UC Berkeley MPH-EHS IH Program and currently working in IH/Safety Consulting. This summer, he worked abroad with the National Institute of Occupational Environmental Health (NIOSH of Vietnam) and Centre for Development and Integration (NGO) to research OSH challenges and opportunities. His global perspective on occupational safety and health motivates him to work in varying industries, receive his CIH, and continue research on health equity and workplace safety.

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Hyper Transparency in Global Supply Chains: Bringing Worker and Consumer Voices to the Forefront



Samantha Hartsock, MBA

Community Director
Remake

Sam Hartsock has a decade of leadership promoting inclusive growth and climate justice. She is the Community Director at Remake (@remakeourworld). Remake is igniting a conscious consumer movement, using the power of storytelling, immersive journeys, and #wearyourvalues campaigns to get people to be curious and buy better. Alongside Remake, Sam is the co-founder of qb. consulting, providing strategic advice to organizations including Experian, S&P Global, and Fossil on the integration of environmental, social, and governance considerations into business. She holds an M.B.A. in Sustainability Management from Presidio Graduate School.



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2019 CIHC PROFESSIONAL DEVELOPMENT SEMINAR

Thursday, December 5, 2019

Morning Session Theme – “Emerging Issues”

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

- 8:00 a.m. Session Chair Welcome and Introductions — *Pamela Murcell, MS, CIH, CIHC Board President; President, KWA Safety & HazMat Consultants, Inc.*
- 8:05 a.m. The Wild West: Cannabis Industry Safety Hazards, IH Exposures and Repetitive Motion Injury Risks — *Karen Gunderson, MPH, CIH, CHMM, Industrial Hygiene Consultant; Kristy Schultz, MS, CIE, Ergonomics Consultant; Monika Maier, CSP, Loss Prevention Engineer, State Compensation Insurance Fund, Safety and Health Services*
- 9:00 a.m. Cloud Computing & IOT in I.H. Field Analysis — *Tim Quinn, Environment, Health & Safety, BDM/SME Cloud, SGS Galson*

9:50 a.m. Exhibitor Demonstration and Exhibits

- 10:20 a.m. Latest and Greatest in Ergonomics: Emerging Trends, Issues, and Evidence-Based Practices – *Melanie Alexandre, MS, OTR, CPE, Berkeley Lab Ergonomics Subject Matter Expert, Lawrence Berkeley National Laboratory*
- 11:10 a.m. NIOSH Emerging Issues — *John Piacentino, MD, MPH, Associate Director for Science, National Institute for Occupational Safety and Health*

Noon-1:30 p.m. LUNCH ON YOUR OWN

Afternoon Session Theme – “When CG Isn’t an Option: News and Entertainment Industry Hazards”

- 1:30 p.m. Session Chairs Welcome and Introductions — *Megan Canright, MPH, CIH, CIHC Board, Forensic Analytical Consulting Services, Inc.; Grace Rinck, CIH, CIHC Board, Vice-President, Aurora Industrial Hygiene*
- 1:35 p.m. The Art of Hazard Assessments — *Nancy Mallette, Senior Manager, Occupational Health and Safety, Cirque du Soleil Entertainment Group*
- 2:20 p.m. Environmental, Health & Safety Issues in the News Industry — *Sasha Loftis, Weekend Anchor/Reporter, Channel 8 News, Las Vegas*
- 3:00 p.m. Exhibitor Demonstration and Exhibits**
- 3:30 p.m. Hotels & Hospitality: Case Studies in Environmental, Health & Safety — *Madeleine Rebullida, Project Manager, Forensic Analytical Consulting Services, Inc.*
- 4:15 p.m. Industry Guidelines Regarding The Use of Artificially Created Atmospheric Fog and Haze in the Entertainment Industry (a new ANSI standard) — *Mona Shum, CIH, Principal, Aura Health and Safety Corporation; William Smith, Executive Director Production Safety, Sony Pictures Entertainment; Matthew Antonucci, Vice President, Contract Services Administration Trust Fund (CSATF), Government Liaison on Safety for the Industry*
- 5:00 p.m. Conference Day Two Ends

5:30-7:00 p.m. Evening Social – InterContinental Mark Hopkins, Room of the Dons (CIHC Exhibitor Room)



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The Wild West: Cannabis Industry Safety Hazards, IH Exposures and Repetitive Motion Injury Risks

Karen Gunderson, MPH, CIH, CHMM

Industrial Hygiene Consultant

State Compensation Insurance Fund, Safety and Health Services

Karen Gunderson, MPH, CIH, CHMM, holds an MPH in Industrial Hygiene from UCB. She is currently a consulting industrial hygienist for California State Compensation Insurance Fund. Previously, she worked as an EHS Manager, a Cal/OSHA inspector, an environmental consultant, and a corporate industrial hygienist. She lived in Indonesia for nine years, and worked for the OSH program at the University of Indonesia and at a worker safety NGO supporting an asbestos ban in Indonesia.

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The Wild West: Cannabis Industry Safety Hazards, IH Exposures and Repetitive Motion Injury Risks

Kristy Schultz, MS, CIE

Ergonomics Consultant

State Compensation Insurance Fund, Safety and Health Services

Kristy Schultz, MS, CIE, holds an MS in Human Factors/Ergonomics from San Jose State University and is a Certified Industrial Ergonomist. She is an ergonomics consultant for State Fund with a history of working between her current employer and Cal/OSHA. Her work has included developing quality publications, training, and consulting services to various types of businesses, both industrial and office. Kristy has been a speaker on ergonomics in the workplace to employer groups, colleges, various organizations, & national conferences. She is also Co-chairperson of the non-profit group, Ergonomics Roundtable of Sacramento.

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The Wild West: Cannabis Industry Safety Hazards, IH Exposures and Repetitive Motion Injury Risks



Monika Maier, CSP

Loss Prevention Engineer

State Compensation Insurance Fund, Safety and Health Services

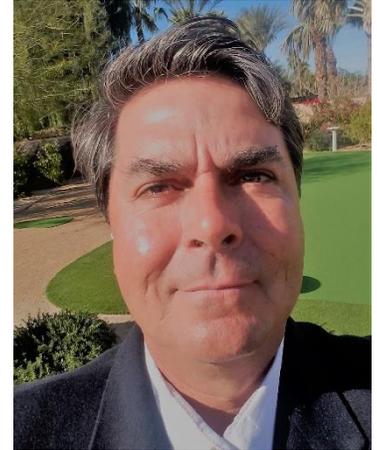
Monika Maier, CSP is a loss prevention engineer for State Fund. She obtained her Certified Safety Professional (CSP) designation in 2007 and has 20 years of experience as a loss prevention professional, including nearly three years as an Associate Safety Engineer at Cal/OSHA. She has experience working with a wide range of central coast and greater bay area companies in the agricultural, industrial, and construction industries. Monika has conducted safety training and presentations to employer groups, trade associations, and at State Fund employer seminars. She is also a certified pesticide safety trainer through the California Department of Pesticide Regulation.

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Cloud Computing & IOT in I.H. Field Analysis



Tim Quinn

Environment, Health & Safety, BDM/SME Cloud
SGS Galson

Tim Quinn is a Subject Matter Expert in Cloud Remote Monitoring and a Business Development Manager for SGS Galson. Tim is a member of AIHA. His talk today is titled, "Cloud computing and IOT in Industrial Hygiene Field Analysis." The premise is that you can sample there while you are here. He will discuss the many new cloud based remote monitors which allow the (IH/CIH) the ability to monitor, data collect, be alerted, and pull grab samples remotely. These devices collect data points every minute for up to 6 sensors, 24 hours a day. Remote monitoring is a great way to multi-task while collecting large amounts of data. Tim promises not to be boring. SGS Galson believes the IH community is finally ready to embrace new technology.

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Latest and Greatest in Ergonomics: Emerging Trends, Issues, and Evidence-Based Practices



Melanie Alexandre, MS, OTR, CPE

Ergonomics Subject Matter Expert
Lawrence Berkeley National Laboratory

Melanie Alexandre is a Certified Professional Ergonomist who holds degrees in Occupational Safety and Health and Occupational Therapy. Melanie has had opportunities throughout the past 25 years of her career to help develop programs including participatory ergonomics, early intervention, and customized training for vast work settings including office, industrial, and laboratory. She is currently works at Berkeley Lab and she is heavily involved in integrating ergonomics and usability into the design of new labs and buildings. She is especially proud of the opportunities to teach ergonomics to teachers and students in her community.

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NIOSH Emerging Issues

John Piacentino, MD, MPH

Associate Director for Science
National Institute for Occupational Safety and Health

John D. Piacentino, MD, MPH is the Associate Director for Science for the National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention. His current focus is on advancing science excellence by promoting the establishment of strong scientific evidence as the basis for planning, developing and disseminating NIOSH science, guidance and recommendations. Emphasis is given to transparency, independent and expert peer review, and effective stakeholder and public engagement.

Prior to his employment at NIOSH, Dr. Piacentino worked for the United States Department of Labor, Occupational Safety and Health Administration. His activities included providing medical support for enforcement cases of national significance, working on Agency standards and providing medical expertise on emerging issues, such as nanotechnology and emergency preparedness.

Dr. Piacentino received his Doctor of Medicine from Temple University, followed by the completion of an Internal Medicine residency at Temple University Hospital. Dr. Piacentino also completed a Master of Public Health and a residency in Occupational and Environmental Medicine at the Johns Hopkins Bloomberg School of Public Health. He is board certified in internal medicine and occupational medicine.

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The Art of Hazard Assessments

Nancy Mallette

Senior Manager, Occupational Health and Safety
Cirque du Soleil Entertainment Group

Nancy Mallette is the Senior Manager for Occupational Health and Safety for the Cirque du Soleil Entertainment Group responsible for Health and Safety oversight of 15 productions worldwide. She has been with Cirque du Soleil for 23 years principally as their Senior Operations Production Manager. She was the Senior Operations Production Manager for "Mystère" and "Zumanity" and was the Creation Production Manager for Criss Angel's "Believe". Prior to joining Cirque du Soleil in 1996, Ms. Mallette held the position of Director of Production at the largest multi venue performance facility in Canada; the National Arts Center. She is an OSHA certified trainer in a wide array of General Industry topics. One of her passions is in facilitating managerial workshops on the topic of Leadership in Safety. She has been involved in the field of live entertainment in positions ranging from Production Management, Production Stage Management, Technical Direction and Festival Logistics Production. She possesses a Bachelor of Arts degree in Mass Communications and a second Bachelor of Arts in Film. She is a creative writer, meditator and dedicated to the cause that more women need to take leadership roles in the field of entertainment.

Having an intimate knowledge of the production of Mystère as Operations Production Manager for 8 years, Nancy Mallette will take us on an historical journey of "The Art of Hazard Assessments" focusing on the development of Cirque du Soleil's Mystère production at the Treasure Island theatre. We begin this interesting study by reviewing the creation development phase of the production, through construction of the custom built theatre into the installation of the scenic elements. We will continue by understanding the path that a new artist must take to become a Cirque du Soleil artist performing 478 shows per year. We'll have a look at the risk assessment program and the means by which risks are reduced for performers.

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Environmental, Health & Safety Issues in the News Industry



Sasha Loftis

Weekend Anchor/Reporter
Channel 8 News, Las Vegas

Sasha Loftis joined the 8NewsNow team in April of 2018 as a Weekend Anchor/Reporter. Born and raised in Tucson, Arizona, Sasha's passion for news began with her curiosity as a child and blossomed when she discovered her love for writing. Sasha graduated from The University of Arizona in 2013 with a bachelor's degree in Broadcast Journalism. She spent two years in college as an intern at Tucson's NBC affiliate, KVOA. After graduation, Sasha dove into her first newsroom at the local ABC station in Tucson, working as an assignment editor, learning the ins and outs of the television industry behind the scenes. Sasha's on air debut came in 2014, when she accepted a Traffic Anchor job at KOLD, Tucson's CBS affiliate. Sasha spent four years building extensive experience as a traffic anchor, news anchor, investigative reporter and occasional weather anchor fill-in. She's covered every kind of breaking news story involving traffic, politics, weather, crime and sports. When Sasha is not in the newsroom, she enjoys riding her two horses, playing with her pet rabbit Henry, spending time with her amazing mom and her best friends and eating all the ice cream she can get!

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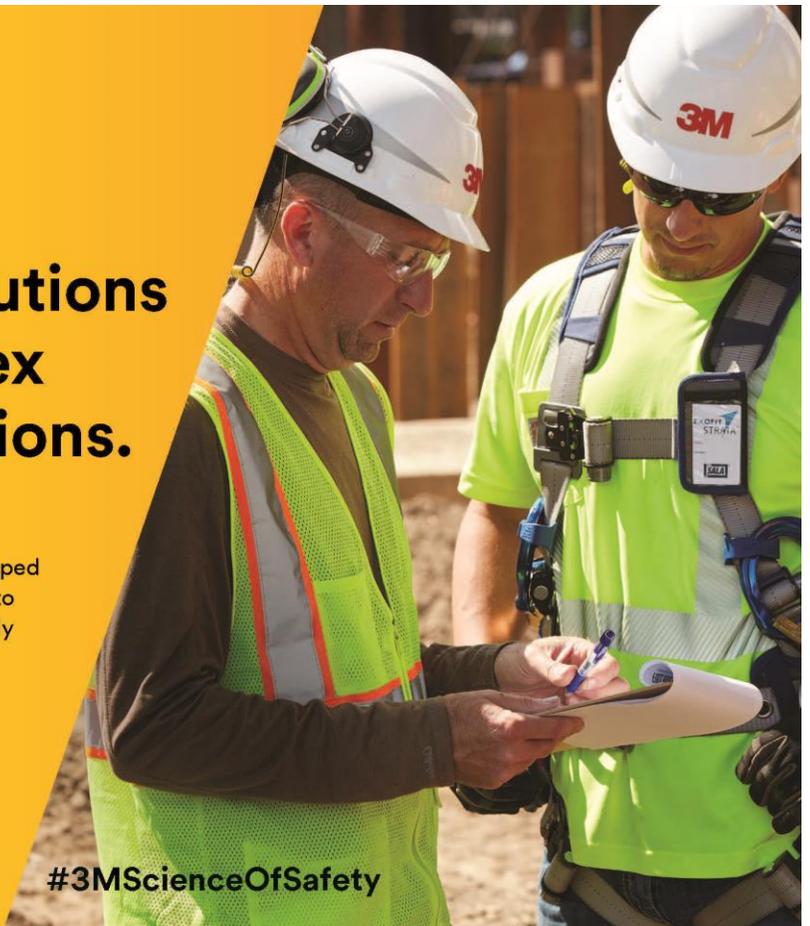
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Hotels & Hospitality: Case Studies in Environmental, Health & Safety



Madeleine Rebullida

Project Manager

Forensic Analytical Consulting Services, Inc.

Madeleine Rebullida is a Project Manager for Forensic Analytical Consulting (FACS) in Hayward, California. She is a leader in the FACS Mold & Moisture team, as well as the FACS Northern California Water Quality and Wildfire Smoke practice groups. Madeleine is also an instructor in the training division of FACS, teaching AHERA Asbestos and exam prep courses. Madeleine received her Bachelor of Science in Environmental Science from Saint Mary's College of California in 2016. Prior to attending Saint Mary's College, she served as a Tactical Team Sergeant in the US Army Reserve with deployments to Iraq and Afghanistan. Madeleine is married with two step-daughters and enjoys training and competing in Brazilian Jiu Jitsu in her free time.

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Industry Guidelines Regarding The Use of Artificially Created Atmospheric Fog and Haze in the Entertainment Industry



Mona Shum, CIH

Principal Industrial Hygienist
Aura Health and Safety Corporation

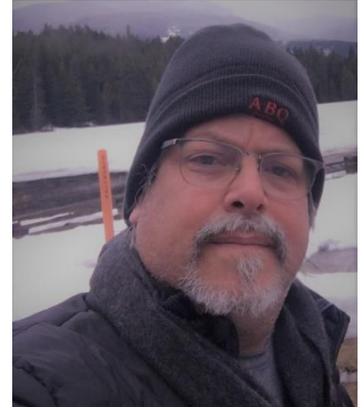
Ms. Shum is a Certified Industrial Hygienist with over 20 years of experience in exposure assessment, chemical review, and environmental public health. As an industrial hygienist, she has experience working in refineries, oil and gas plants, underground and open pit mines, research and development facilities, chemical and manufacturing facilities, and commercial buildings. She has reconstructed asbestos, beryllium, EMF, lead and benzene exposures to various types of workers by examining the existing literature, identifying the possible exposure for tasks performed in each occupation, and then determining the likely exposure in the timeframe of interest. She is an adjunct professor at the University of British Columbia and is the Principal Industrial Hygienist at Aura Health and Safety, and she and her staff and students have been involved in conducting research and exposure assessments of glycol- and glycerin-based theatrical fog for several years.

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Industry Guidelines Regarding The Use of Artificially Created Atmospheric Fog and Haze in the Entertainment Industry



William Smith

Executive Director of Production Safety
Sony Pictures Entertainment

Bill Smith is the Executive Director of Production Safety and Security for Sony Pictures Entertainment (SPE). His team provides guidance, consultation and resource support on safety and security issues to SPE's Motion Picture Group (Columbia, Tri-Star, Screen Gems), as well as its vast television production entities across the US, Canada, UK/EU and Latin America. In 2018, SPE produced 12 feature films and 45 television productions in 16 countries, 8 US states and 4 Canadian Provinces.

In 1987, Bill entered into the entertainment industry the old fashioned way - via nepotism. Over his 30 years career with NBC Studios, 20th Century Fox and now SPE, he has performed every type of role within EH&S and emergency management. He has a keen understanding of how to incorporate regulatory compliance into the creative and fast-paced entertainment industry. Bill is fond of saying "health and safety regulations are black and white....we work in the grey."

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Industry Guidelines Regarding The Use of Artificially Created Atmospheric Fog and Haze in the Entertainment Industry



Matthew Antonucci

Vice President

Contract Services Administration Trust Fund (CSATF)

Government Liaison on Safety for the Industry

Matt Antonucci is Vice President of Production Affairs and Safety at Contract Services Administration Trust Fund (CSATF). He is the co-chair of the Industry-Wide Labor-Management Safety Committee and works with many committees covering a wide range of sectors across the industry. Matt gained his experience from his longstanding involvement in the industry, from working for the Directors Guild of America as its representative on the Industry-Wide Labor-Management Safety Committee (IWLMSC) for nearly 5 years and responding to and resolving safety issues with stunt performers and background performers during his 5 years with Screen Actors Guild.

CIHC Evening Social

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The Room of the Dons
Thursday, December 5th
5:30 p.m. to 7:30 p.m.

Drink tickets will be provided at the door.

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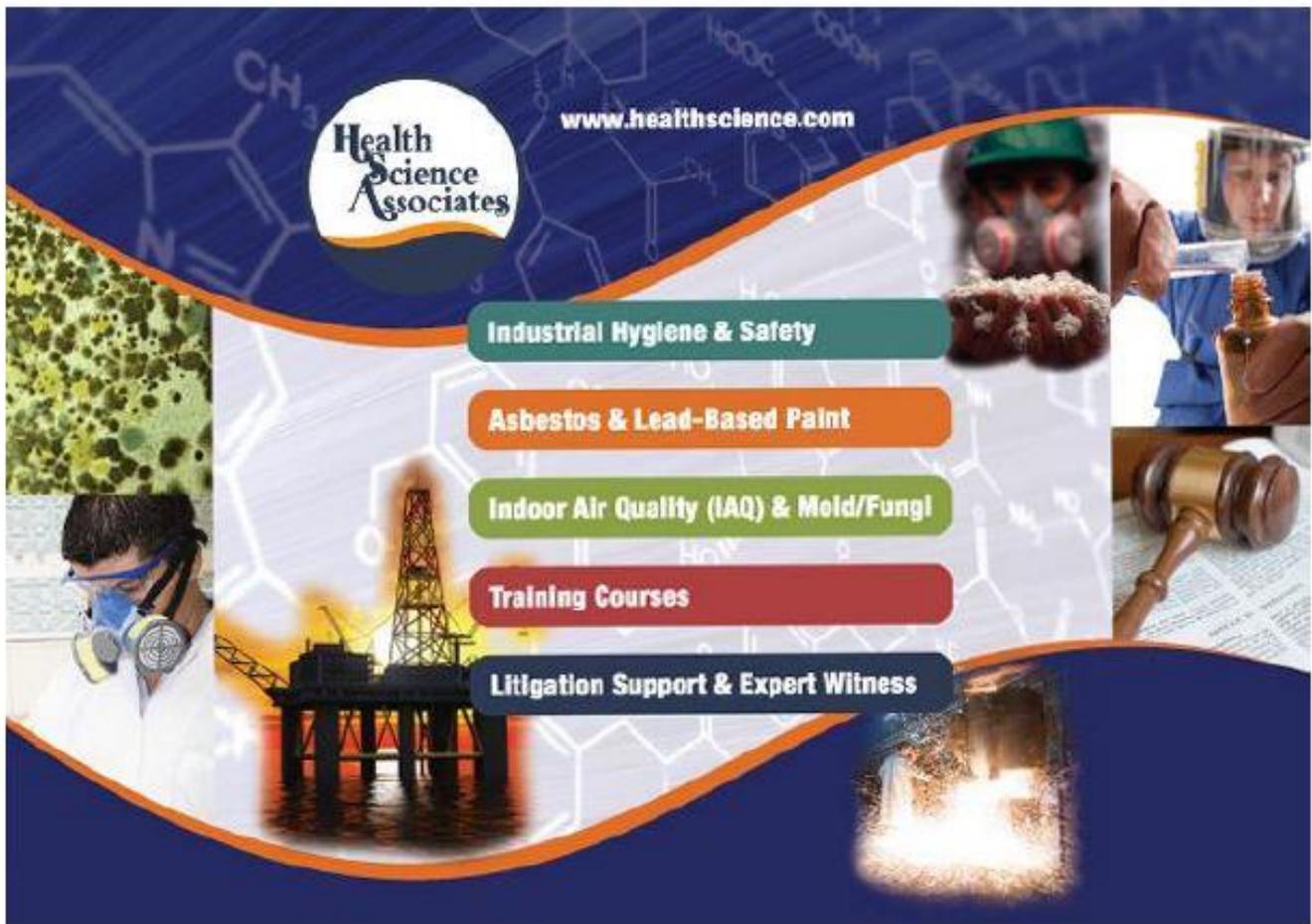
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2019 CIHC PROFESSIONAL DEVELOPMENT SEMINAR

Friday, December 6, 2019

Morning Session Theme – “Dustborne Exposures”

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

8:00 a.m. Session Chair Welcome and Introductions — *Pamela Murcell, MS, CIH, CIHC Board President; President, KWA Safety & HazMat Consultants, Inc.*

8:05 a.m. Biologics: Cannabis Processing and Mold, Valley Fever, Legionella — *Jon Curtis, CAC, Forensic Analytical Consulting Services; David Kahn, CIH, Forensic Analytical Consulting Services; Ben Kollmeyer, CIH, Forensic Analytical Consulting Services*

9:05 a.m. Beryllium-Copper Investment Casting: A Case Study — *Joel Berman, CIH, CSP, CIAQM, CAC, Conference Co-Chair, CIHC Board Vice-President; Vice-President, Health Science Associates*

9:55 a.m. Break

10:10 a.m. Assessing Air Quality and Public Health Impacts of Wildfires — *Mena Shah, MS, Air Resources Supervisor, California Air Resources Board (CARB); Barbara Weller, Ph.D., Air Resources Supervisor, CARB*

11:00 a.m. Silica and Respirable Dust Sampling — *Aaron W. Apostolico, CIH, CSP, CIEC, Product Line Manager – Health and Safety Products, Sensidyne, LP*

Noon-1:10 p.m. LUNCH ON YOUR OWN

Afternoon Session Theme – “Climate Change”

1:10 p.m. Session Chair Welcome and Introductions — *Jaime Steedman-Lyde, CIH, CIHC Board Member; Principal Industrial Hygienist, Yorke Engineering, LLC*

1:15 p.m. Engaging with Climate Change Risks in California: Flooding Scenarios and Assessable Tools for Anticipation of Risks — *Anne Wein, Ph.D., U.S. Geological Survey*

2:15 p.m. Driving Factors: Impacts and Policies in California — *Alvar Escrivá-Bou, Ph.D., Research Fellow, Public Policy Institute of California*

3:15 p.m. Review of Some Effects of Climate Change on Indoor Environmental Quality and Health and Associated No-Regrets Mitigation Measures — *William Fisk, MS, Lawrence Berkeley National Laboratory*

4:15 p.m. Closing Remarks — *Pamela Murcell, MS, CIH, CIHC Board President; President, KWA Safety & HazMat Consultants, Inc.*

4:30 p.m. Conference Ends

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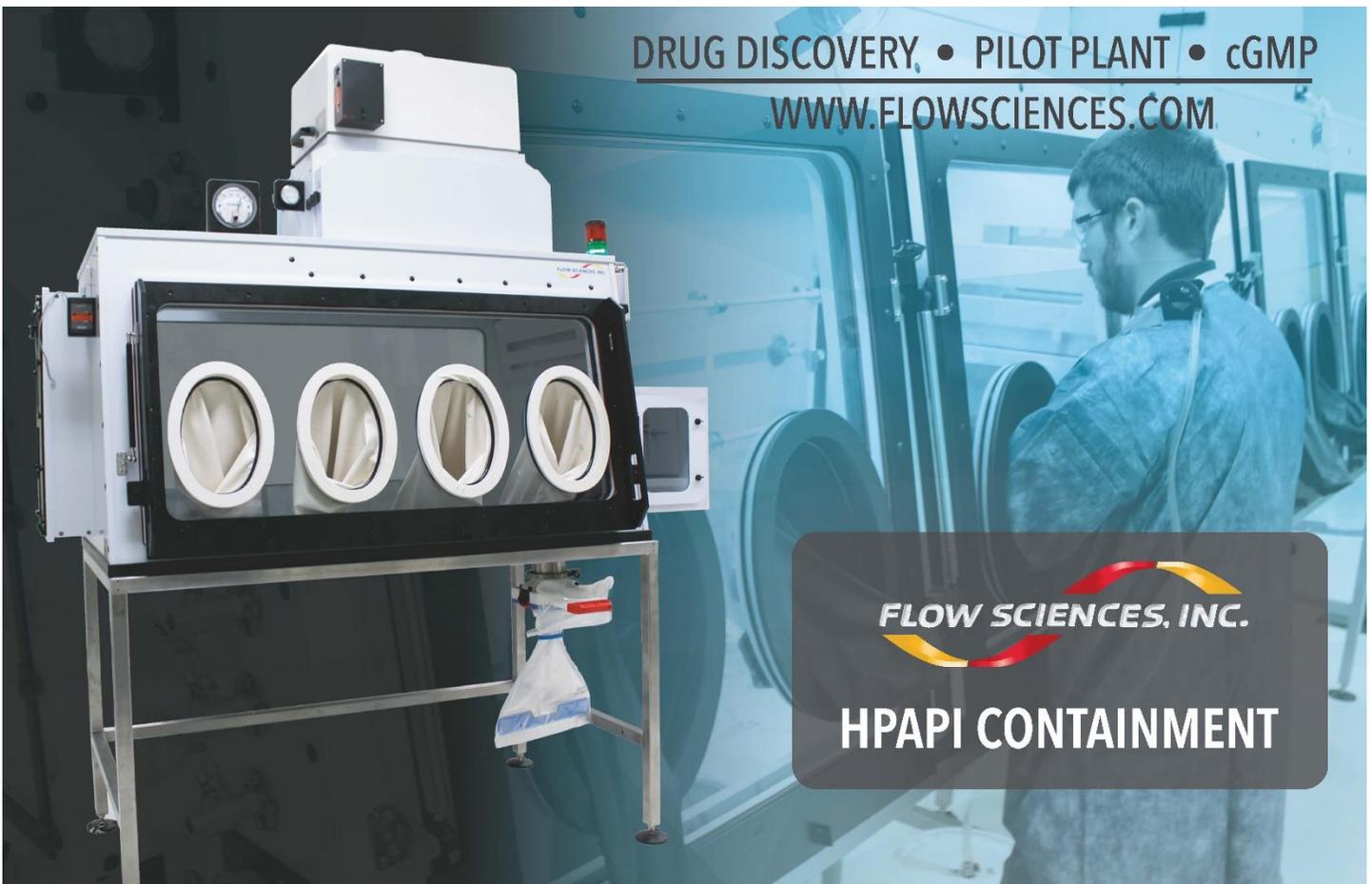
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Biologics: Cannabis Processing and Mold, Valley Fever, Legionella

Jon Curtis, CAC

Senior Project Manager
Forensic Analytical Consulting Services

Jonathan Curtis began working in the environmental health and industrial hygiene industry in 2000. He is currently a senior project manager at Forensic Analytical Consulting Services, Inc. in Citrus Heights, California. He is a DOSH Certified Asbestos Consultant, and CDPH Certified Inspector/Assessor working primarily with asbestos, lead, and mold in a variety of occupational settings.

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Biologics: Cannabis Processing and Mold, Valley Fever, Legionella



David Kahn, CIH

Senior Project Manager
Forensic Analytical Consulting Services

David Kahn, CIH, is a Senior Project Manager for FACS in Portland, Oregon. He is a leader in FACS' Industrial Hygiene practice and in FACS' Water Quality practice, having lead multiple preventative water management assessments and developed numerous waterborne pathogen management plans. David received his Bachelors of Science in Environmental Science and Ecology from Sierra Nevada College in 2010.

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Ben Kollmeyer, CIH

Chief Science Officer
Forensic Analytical Consulting Services

Ben holds a Master of Public Health degree from U.C. Berkeley and is a Certified Industrial Hygienist. He has over 20 years of experience in the environmental health arena, working as an in-house EHS director and as a consultant. He is frequently called upon for expert witness testimony and to assist with analysis and risk communication to stakeholder groups in occupational and community settings.

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Beryllium-Copper Investment Casting: **A Case Study**

Joel Berman, CIH, CSP, CIAQM, CAC

Vice-President
Health Science Associates

Joel I. Berman, is Vice President of Health Science Associates, a full service Industrial Hygiene and Environmental consulting firm. Mr. Berman is a CIH, in Comprehensive Practice, a CSP in Safety Management Specialist, Certified Indoor Air Quality Manager, a California Certified Asbestos Consultant, and a California Department of Public Health Inspector/Assessor and Project Monitor (PM). His duties include project oversight of HSA's professional and technician staff, project set-up, field investigations, report writing and review, expert witness testimony, etc. He has a BS in Business Administration with an option in Marketing from Long Beach State.

Mr. Berman has been employed with HSA for 34 years. He has performed various duties with HSA: technician, project manager, Industrial Hygienist, Director of Health and Safety Services, and Vice President. He has provided consulting to HSA's clientele on various health and safety issues including, but not limited to: asbestos, radon, mercury, indoor air quality, safety evaluation, program management, and in the Southern California area is a well-known and respected expert witness for civil and workers compensation cases in various areas of practice, including fungal contamination issues, toxic torts, and asbestos.

Mr. Berman has served on the Orange County AIHA local section board for several years and is currently the OCAIHA representative on the California Industrial Hygiene Council (CIHC) Board. He is currently the Vice President for CIHC. He also serves on the Stewardship and Sustainability Technical Committee for the American Industrial Hygiene Association.

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Assessing Air Quality and Public Health Impacts of Wildfires



Mena Shah, MS

Air Resources Supervisor
California Air Resources Board

Mena Shah is the manager of the Air Quality and Statistical Studies Section at the California Air Resources Board (CARB). In her current role, Mena is responsible for overseeing the operation, maintenance, and enhancement of CARB's real-time and regulatory air quality databases (including toxics), managing CARB's air quality and data analysis programs, providing technical support for State Implementation Plan development, and providing technical support for air quality analyses with an emphasis on regional air quality trends and interpretation. With a growing need for higher spatial-resolution monitoring and improved public data access to community-based networks, most recently, Mena and her team have also been managing the design and development of CARB's new, comprehensive statewide web portal known as "AQview" in support of AB 617 legislation – Community Air Protection Program. Mena has a Master of Science in Biochemistry.

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Assessing Air Quality and Public Health Impacts of Wildfires



Barbara Weller, Ph.D.

Air Resources Supervisor
California Air Resources Board

Barbara Weller has spent most of her career studying the health impacts of air pollution. Barbara Weller received her Ph.D. in pathology and toxicology from Duke University in 1994 and completed her postdoctoral training at the University of California, Davis. She is presently a supervisor at the Air Resources Board's Research Division, managing the Population Studies Section, which is responsible for the direction of epidemiology studies sponsored by CARB as well as in-house research. These studies examine the effects of air pollution exposure on sensitive populations such as children, the elderly, and those with respiratory and cardiovascular disease and examine other factors that may contribute to sensitivity such as socioeconomic factors and the built environment.

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Silica and Respirable Dust Sampling

Aaron W. Apostolico, CIH, CSP, CIEC

Corporate Industrial Hygienist
Product Line Manager – Health and Safety Products
Sensidyne, LP

Aaron Apostolico is a Certified Industrial Hygienist and Product Line Manager with Sensidyne, LP. He is responsible for managing the occupational health and industrial hygiene equipment product lines across the business and provides technical support to the global marketplace. Mr. Apostolico is well versed in the practice of Industrial Hygiene, and Environmental Health & Safety. He is proficient in industrial hygiene air monitoring, with evaluation of field test results and management recommendations. He will share his specific knowledge of air sampling instrumentation and calibration equipment in today's presentation.

Mr. Apostolico received his Bachelor of Science degree from Rutgers University in Environmental Science and attended the University of South Florida College of Public Health for graduate studies in Occupational Health and Safety. He currently holds professional designations as a Certified Industrial Hygienist, Certified Safety Professional, and as a Certified Indoor Environmental Consultant.

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Engaging with Climate Change Risks in California: Flooding Scenarios and Assessable Tools for Anticipation of Risks



Anne Wein, Ph.D.

Principal Investigator
U.S. Geological Survey

Dr. Anne Wein cares about using scientific information to reduce natural hazard risks. She is a principal investigator at the United States Geological Survey (USGS), Menlo Park, California. For the USGS scenarios (ShakeOut, ARkStorm, SAFRR Tsunami, and now HayWired) she coordinates and conducts collaborative research activities to transform natural hazard information and data into societal consequences. She works at the interfaces of disciplines, between theory and practice, using quantitative and qualitative methods. She investigated the communication of aftershock forecast information during the 2010-present Canterbury earthquake sequence with social scientists in GNS Science, New Zealand.

In 2010, she received a Success Story award for advancing the goals of the USGS Science Strategy through the development and execution of the ShakeOut Scenario and Exercise. She represented Societal Impacts in the 2013 USGS Hazards Science Strategy Plan. This year, she and the HayWired scenario team received an award from the Bay Area Association of Governments/Metropolitan Transportation Commission for producing the most detailed earthquake scenario for use in their regional planning. She obtained a PhD in Decision Science from the Graduate School of Business, Stanford University, in 1988.

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Driving Factors: Impacts and Policies in California



Alvar Escriva-Bou, Ph.D.

Research Fellow

Public Policy Institute of California

Alvar Escriva-Bou is a research fellow at the PPIC Water Policy Center. His research explores integrated water, energy, and environmental resources management, including systems approaches, simulation and optimization of economic-engineering models, and climate change analysis. Previously, he worked as a civil engineer, managing and developing large infrastructure projects for local and regional governments and consulting firms in Spain. He holds a PhD and MS in water and environmental engineering and a BS in civil engineering from the Polytechnic University of Valencia in Spain, as well as an MS in agricultural and resource economics from the University of California, Davis.

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Review of Some Effects of Climate Change on Indoor Environmental Quality and Health and Associated No-Regrets Mitigation Measures

William Fisk, MS

Senior Scientist, Indoor Environment Group
Lawrence Berkeley National Laboratory

William Fisk is a senior scientist in the Indoor Environment Group at Lawrence Berkeley National Laboratory. He has conducted research on indoor environmental quality for approximately 40 years. His research topics have included building ventilation, air cleaning technologies, indoor radon, dampness and mold and its relationship with health, and economic implications of indoor environmental conditions. For a dozen years, he led the Indoor Environment Department at the Laboratory. He has authored or co-authored approximately 120 journal articles, plus additional book chapters, conference papers, and reports. Fisk is a Fellow of ASHRAE and was elected to the International Academy of Indoor Air Sciences in 1999.



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- Ergonomic (repetitive motion, bending, lifting, pushing, walking, reaching).
- Organizational (workplace violence, harassment, stress, workload).

Final Notes

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