

28th Annual CIHC Professional Development Seminar



*Advancing public policy to
improve the health and safety
of workers and the community.*



December 10-12, 2018
Hard Rock Hotel
San Diego, CA

CALIFORNIA INDUSTRIAL HYGIENE COUNCIL

2018 CIHC PDS Program Overview

“OEHS - Making a Difference”

MONDAY DECEMBER 10, 2018

<u>TIME</u>	<u>ACTIVITY</u>	<u>LOCATION</u>
7:00-8:00 a.m.	Registration & Continental Breakfast	Legends 5-6
8:00 a.m.	Conference Opening	Legends 1-4
8:15 a.m.	Morning Session “Today’s Regulatory/Legislative Arena: Are You Prepared?”	Legends 1-4
10:00 a.m.	Exhibitor Demonstration and Exhibits	Legends 5-6
10:30 am	Morning Session (Cont.) “Today’s Regulatory/Legislative Arena: Are You Prepared?”	Legends 1-4
Noon-1:30 p.m.	KEYNOTE LUNCHEON – DR. JOHN HOWARD, DIRECTOR, NIOSH	Legends 1-4
1:30 p.m.	Afternoon Session “Cannabis - Up ‘n Smokin”	Legends 1-4
3:15 p.m.	Exhibitor Demonstration and Exhibits	Legends 5-6
3:35 p.m.	Afternoon Session (Cont.) “Cannabis - Up ‘n Smokin”	Legends 1-4
5:15 p.m.	<i>PDS Day One Adjourns</i>	

TUESDAY, DECEMBER 11, 2018

7:00-8:00 a.m.	Registration & Continental Breakfast	Legends 5-6
8:00 a.m.	Morning Session “Wildfire Response and Recovery”	Legends 1-4
9:50a.m.	Exhibitor Demonstration and Exhibits	Legends 5-6
10:20 a.m.	Morning Session (Cont.) “Wildfire Response and Recovery	Legends 1-4
<i>Noon-1:30 p.m.</i>	<i>Lunch on your own</i>	
1:30 p.m.	Afternoon Session “Emerging Issues”	Legends 1-4
3:00 p.m.	Exhibitor Demonstration and Exhibits	Legends 5-6
3:30 p.m.	Afternoon Session (Cont.) “Emerging Issues ”	Legends 1-4
5:00 p.m.	<i>PDS Day Two Adjourns</i>	
5:30-7:00 p.m.	CIHC Evening Social Event	Half Door Brewery

WEDNESDAY, DECEMBER 12, 2018

7:00-8:00 a.m.	Registration & Continental Breakfast	Abbey Road
8:00 a.m.	Morning Session “Construction Issues”	Legends 1-4
9:55 a.m.	Break	
10:10 a.m.	Morning Session (Cont.) “Construction Issues”	Legends 1-4
<i>Noon-1:10 p.m.</i>	<i>Lunch on your own</i>	
1:15 p.m.	Afternoon Session “Experiences from Seasoned OEHS Professionals: What I Know Now that I Wish I Knew Then ”	Legends 1-4
2:45 p.m.	Break	
3:00 p.m.	Afternoon Session “Experiences from Seasoned OEHS Professionals: What I Know Now that I Wish I Knew Then ”	Legends 1-4
4:30 p.m.	<i>Conference Closing & PDS Adjourns</i>	<i>Legends 1-4</i>

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

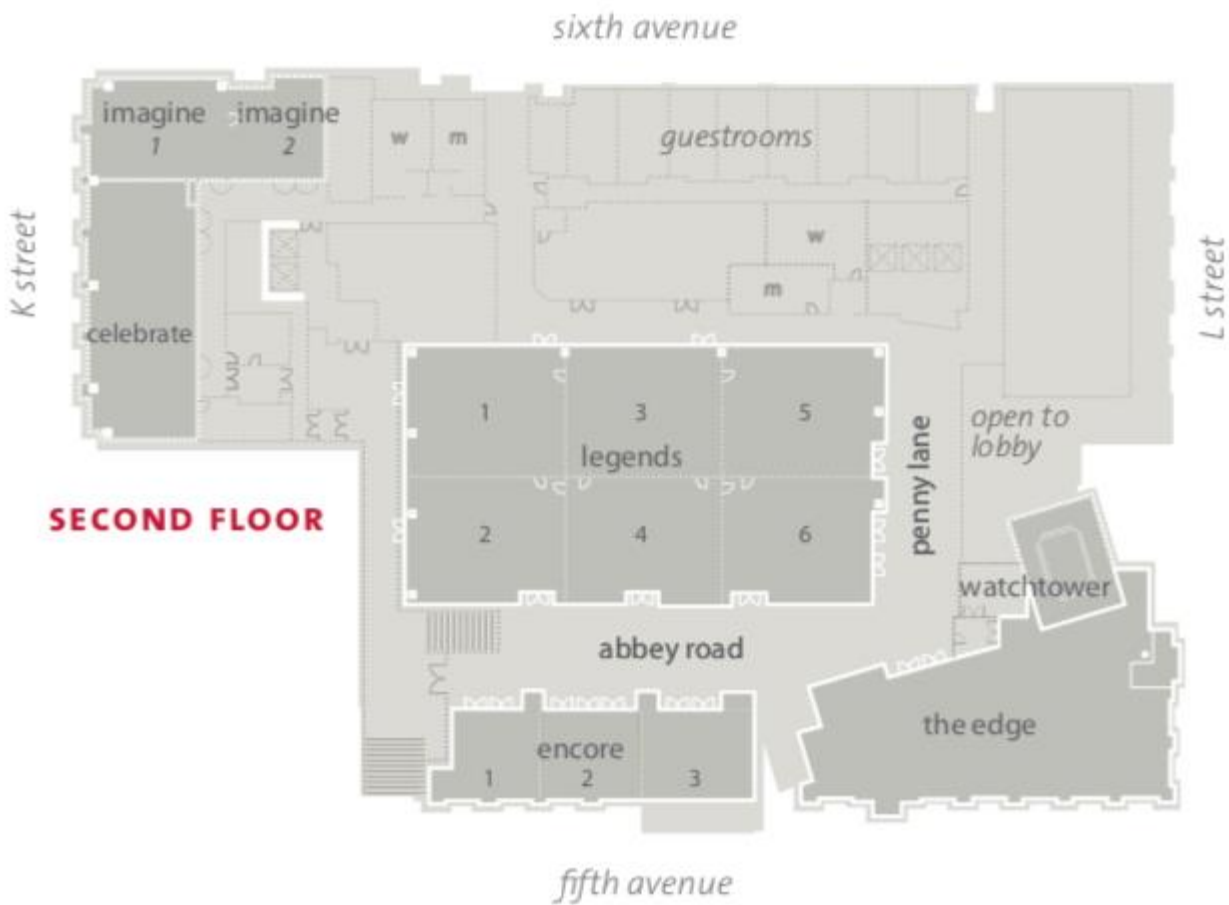
2018 CIHC PDS Event Floor Plan

Primary PDS events will be held in the Legends 1-6 area, which is located on the 2nd Floor of the Hard Rock Hotel.

Continental breakfast and exhibitor activities will be held in the Legends 5-6 rooms and all speaker events will take place in the Legends 1-4 area.

Registration will be located on Abbey Road.

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PDS Welcome from CIHC President

November 24, 2018

Dear Colleagues:

On behalf of the California Industrial Hygiene Council Board, welcome to our 28th annual Professional Development Seminar (PDS, aka The Conference). This year's theme, "OEHS – Making a Difference", 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! We are also looking forward this year to lessons learned from a few of our "seasoned" OEHS professionals – information for the younger professionals to take forward 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 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, 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 2018 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

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 2018, the CIHC Board screened several hundred bills and actively monitored over 100 bills which may impact the industrial hygiene profession, and took a position on 65 bills)
- Sponsor legislation
- Review and comment on proposed regulations through participation in Advisory Committees
- Sponsor annual CIHC Conference/PDS
- 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)
- 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, lead in construction and general industry, ergonomics (housekeeping in hotel and hospitality facilities), injury and illness prevention, permissible exposure limits

Annual CIHC Conference/PDS

- 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

2018 CIHC Board Roster

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Ernst & Young
San Diego, CA

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

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

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Welcome from Event Co-Chairs

Welcome to the 28th Annual CIHC Professional Development Seminar!

It is our pleasure to co-chair the 28th Annual California Industrial Hygiene Council's Professional Development Seminar (PDS) in San Diego, 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.

In keeping with our "OEHS – Making a Difference" theme 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 in the "Program Materials" tab. **You will need the user name conf2018 and password sandiego*2018 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. 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. We're returning to paperless on-line evaluations this year in an effort to save a tree (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 Monkey which can be accessed at <https://www.surveymonkey.com/r/CIHC2018>

We hope you enjoy this educational opportunity designed especially for you! Thank you for attending as we celebrate 28 terrific years of support for the California IH Community!



Joel Berman

Conference Co-Chair

Orange County

Local AIHA Section



Gloria Chan

Conference Co-Chair

San Diego

Local AIHA Section



Richard Hirsh

Conference Co-Chair

Northern California

Local AIHA Section



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28th 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
Gloria Chan, San Diego Section	Conference Co-Chair (hotel & logistics)
Richard Hirsh, Northern California Section	Conference Co-Chair (sponsors/exhibitors)
Joel Berman, Orange County Section	Conference Co-Chair (program)
Gloria Chan, San Diego Section Grace Rinck, Southern California Section John Parente, Sacramento Valley Section	Onsite Registration
Gloria Chan, San Diego Section Deneen Barsi	Online Registration
Megan Canright, San Diego Section Brett Rademaker, An Internet Store	Communications, Website Support
Richard Hirsh, Northern California Section Gloria Chan, San Diego Section	Exhibitors/Sponsors
Jim Unmack, Orange County Section Ed Klinenberg, Sacramento Valley Section	Audio/Projection
Samantha Chua, San Diego Section Gloria Chan, San Diego Section	Conference Program Materials
Gloria Chan, San Diego 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
Joel Berman, Orange County Section	Session Arranger
Dennis Robinson, Northern California Section	Session Arranger
Megan Canright, San Diego Section	Session Arranger
Tim Bormann, Northern California Section	Session Arranger
Pamela Murcell, Sacramento Valley Section	Session Arranger



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Contact: Pamela Murcell, MS, CIH, President and Principle Consultant

E-mail: kwa-sacramento@att.net

Website: www.kwasafety.com

Phone: (530) 622-7196 or (951) 371-1180

Online training: www.kwasafetytraining.com

Notes of Interest

Handout Materials

Professional Development Seminar attendee binder and speaker presentations and materials were made available to the 2018 CIHC PDS attendees in advance. These files are available on the CIHC website at: <https://www.cihconline.com/events>

Username: conf2018
Password: sandiego*2018

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, 2018. Contact CIHC at cihconline@gmail.com, if you don't receive your attendance certificate.

WiFi Access

SSID: Hard Rock
Conf Passcode : aurorakwa2018

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CIHC 2018

Professional Development

Seminar Evaluations

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

<https://www.surveymonkey.com/r/CIHC2018>

Also available via QR code:



2018 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Monday, December 10, 2018

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

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

8:00 a.m. Welcome & CIHC Update — *Pamela Murcell, MS, CIH, CIHC Board President, KWA Safety & HazMat Consultants, Inc.*

8:15 a.m. Session Chair 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*

8:35 a.m. National AIHA—Moving Boundaries — *Larry Sloan, CAE, Chief Executive Officer, American Industrial Hygiene Association*

9:10 a.m. Accomplishments and Future Direction of Cal/OSHA — *Juliann Sum, JD, ScM, Chief, Cal/OSHA*

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. California and Federal Legal EHS Drivers — *Peggy Otum, JD, Arnold & Porter*

Noon-1:30 p.m. KEYNOTE LUNCHEON

Occupational Robotics: An Emerging Field — *Dr. John Howard, Director, NIOSH*

Afternoon Session Theme - "Cannabis - Up 'n Smokin'"

1:30 p.m. Session Chair Welcome and Introductions — *Joel Berman, CIH, CSP, CIAQM, CAC, Conference Co-Chair, CIHC Board Vice President, Health Science Associates*

1:35 p.m. Introduction to the Emerging Cannabis Industry and AIHA's Cannabis Industry Health and Safety Task — *Rob Kleinerman, MPH, CIH, Chair, AIHA Cannabis Industry Health & Safety Task Force*

2:25 p.m. Respiratory Protection Regulations: "There is Another" — *Harvard Fong, CIH, CalEPA, Department of Pesticide Regulation, Worker Health & Safety*

3:15 p.m. Exhibitor Demonstration and Exhibits

3:35 p.m. Legal Aspects — *Ian Stewart, Attorney, Wilson Elser*

4:25 p.m. Challenges for OEHS Professionals in Addressing the Emerging Cannabis Industry — *David Kahane, MPH, CIH, FAIHA, Founder, Forensic Analytical*

5:15 p.m. Conference Day 1 adjourns

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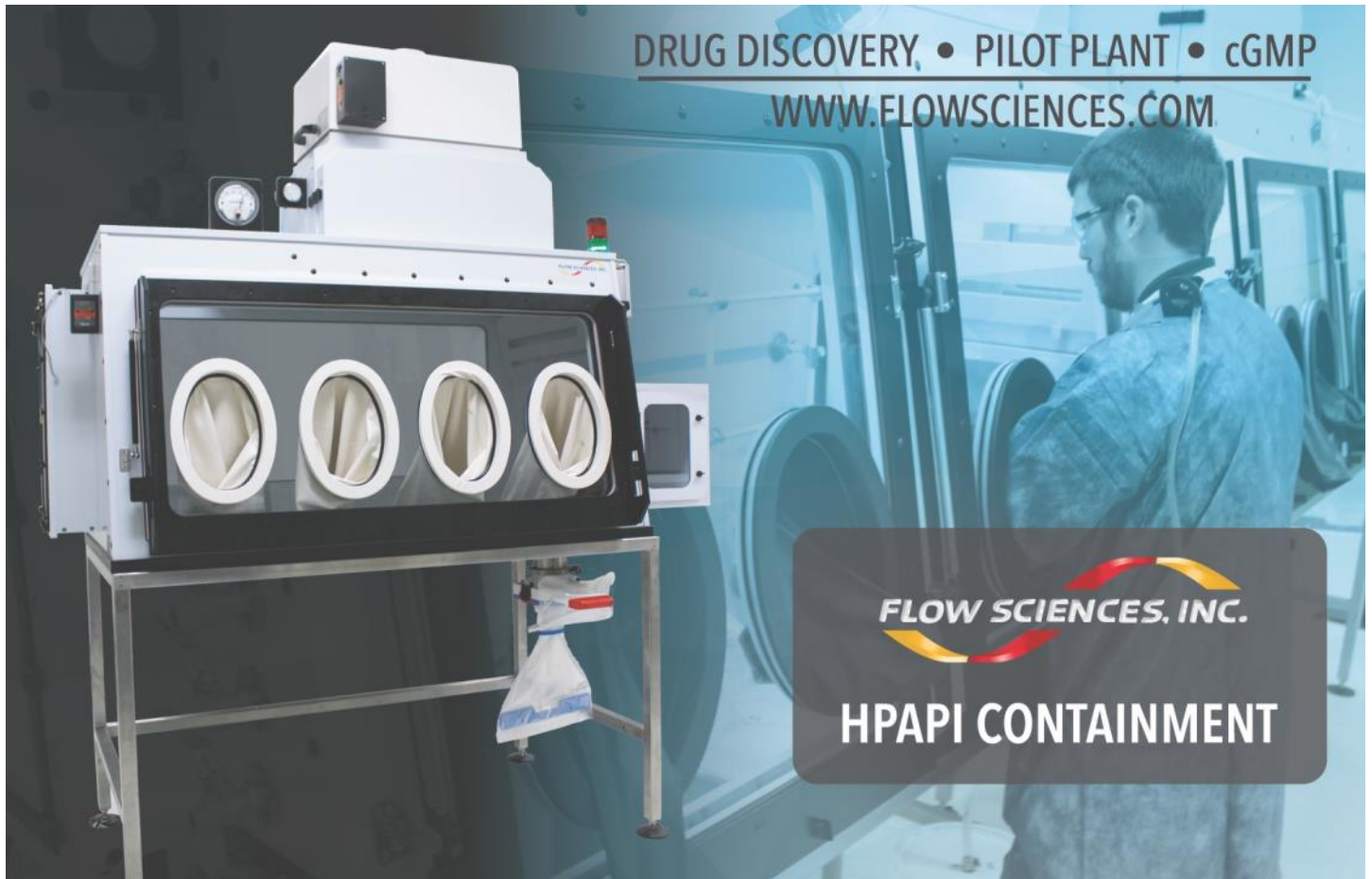
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28th Annual CIHC PDS

San Diego, California

December 10-12, 2018

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 38 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 the current Secretary for the AIHA Sacramento Valley Section, and previously served as secretary, president, and director for the AIHA Sacramento Valley Section from 1984-1996 and again as a director from 2014-2017. 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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San Diego, California

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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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San Diego, California

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National AIHA – Moving Boundaries

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.

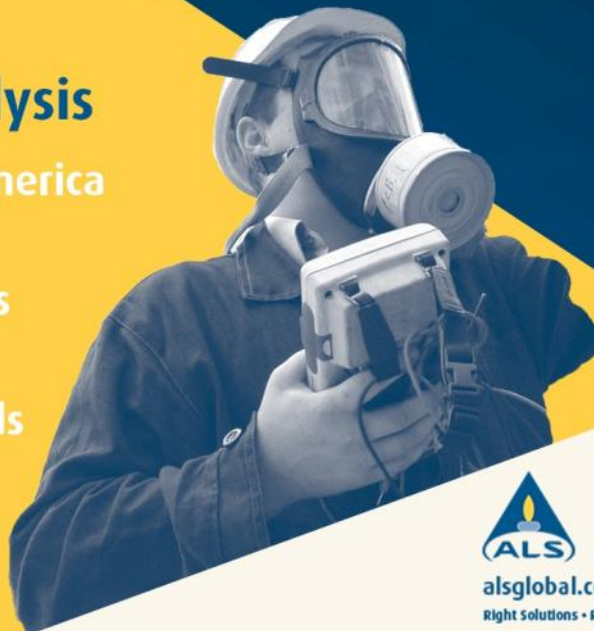
Larry graduated magna cum laude from the University of Pennsylvania with a BS in Chemical Engineering. Later he returned to the Kellogg Graduate School of Management at Northwestern University where he earned his MBA.

In 2006, Larry received his Certified Association Executive (CAE) designation through the American Society of Association Executives. Here, he serves on the ASAE Foundation’s Research Committee, provides periodic insights for its monthly publication, and serves as a content leader at various events.

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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Accomplishments and Future Direction of Cal/OSHA



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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California and Federal Legal EHS Drivers

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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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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Introduction to the Emerging Cannabis Industry and AIHA's Cannabis Industry Health and Safety Task Force



Rob Kleinerman, MPH, CIH

Chair, AIHA Cannabis Industry Health & Safety Task Force
Principal, Kleinerman & Associates Environmental Health & Safety Consulting

Robert is the Principal of Kleinerman & Associates, a professional consulting firm located in the San Francisco Bay Area of California, providing environmental health and safety consulting services to businesses in the western United States. His expertise includes development and implementation of Occupational Health and Safety Management systems, EHS program management, OSHA compliance, industrial hygiene, laboratory safety, control of potent pharmaceutical compounds, environmental protection and emergency preparedness & response.

Prior to consulting, Rob worked for the Los Angeles County Health Department's Hazardous Materials Program, was an Industrial Hygiene Management Consultant with Cal/OSHA, and held several Corporate Environmental Health and Safety Management positions in the chemical, biopharmaceutical, and technology industries.

He holds an M.P.H. degree in Occupational and Environmental Health Sciences from the University of California at Los Angeles with an emphasis in industrial hygiene and a minor in environmental management. He is certified by the American Board of Industrial Hygiene in the Comprehensive Practice of Industrial Hygiene, is a past-President of the Northern California section of the American Industrial Hygiene Association, has served as a member of the ANSI Z9.11 subcommittee that developed a standard for Laboratory Decommissioning, and is currently serving on the AIHA Legal Committee and as the Chair of the AIHA Cannabis Industry Health and Safety Task Force.

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Respiratory Protection Regulations: “There is Another” (Yoda, “The Empire Strikes Back”)



Harvard Fong, CIH

Senior Industrial Hygienist, CalEPA, Department of Pesticide Regulation, Worker Health & Safety Branch

Harvard has been with the Department of Pesticide Regulation's Worker Health and Safety (WHS) Branch since 1980. He has conducted several pesticide exposure studies, including the Mather Methyl Bromide Structural Study, the Jazzercise Dermal Transfer Study, and various investigations of methyl bromide air concentrations in produce processing facilities, field applications, and cold storage facilities. His work at Southern California cold storage facilities concerning methyl bromide exposure has been published in the CDC's Morbidity and Mortality Weekly Report and has been developed into the DPR Chilean Fruit Air Monitoring (CFAM) Program. He developed the "California Roller" device used in surface transfer studies and has authored over 50 Health and Safety Reports for DPR, covering topics from human exposure monitoring to pesticide degradation. He has been certified by the American Board of Industrial Hygiene since 1994 and is a member of the American Conference of Governmental Industrial Hygienists. As the Senior Industrial Hygienist at DPR, he provides consultative assistance to other government agencies' investigations of pesticide exposure events, including on-site evaluation of facilities and procedures. He provides training in pesticide safety issues and is the lead technical person for regulatory development of personal protective equipment and engineering control requirements. Harvard was head author of the respiratory protection regulations in California and lead technical expert on the personal protective equipment regulations. Harvard has a Bachelor's in Genetics from the University of California, Berkeley.

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Legal Aspects (Cannabis)

Ian Stewart

Attorney, Wilson Elser

Ian is a partner in the Los Angeles office of Wilson Elser. Ian is co-founder and chair of the Wilson Elser Cannabis Law practice and uses his 20 years of legal experience to help clients navigate the legalities around cannabis and hemp. He works with licensed cannabis operators to comply with their obligations under the law and to develop risk management best practices. He also regularly consults with insurance companies to assist with cannabis-related underwriting practices and the development of new policy forms. Ian is currently Chair of the National Cannabis Industry Association's Finance and Insurance Committee, as well as Vice-Chair of the California Cannabis Industry Association's Insurance Committee. Ian received his B.A. from Washington University in St. Louis, and his JD from St. Louis University. He has been with Wilson Elser for the past 18 years.

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Challenges for OEHS Professionals in Addressing the Emerging Cannabis Industry



David Kahane, MPH, CIH, FAIHA

Founder
Forensic Analytical

Mr. Kahane is the founder and principal of Forensic Analytical. Established in 1986, Forensic Analytical has provided consulting and analysis in the Environmental Health and Forensic Sciences. He interfaces with executive directors, managers, supervisors and other staff regarding technical, operational, and business development excellence within the organization. He possesses technical expertise on exposures to toxins within the built environment, including asbestos, heavy metals, micro-biologicals, pesticides and volatile organic compounds.

Mr. Kahane performs industrial hygiene and indoor air quality investigations, statistical evaluations, experimental design, exposure assessments and litigation support. He is frequently requested to lecture on sampling and analytical issues related to toxins in the built environment by universities, professional associations, and industry trade groups. Mr. Kahane has been actively involved in professional associations, providing leadership and input at the committee and board level to help shape policy and provide guidance on regulatory issues within the field of industrial hygiene.

Prior to founding Forensic Analytical, Mr. Kahane worked as a consultant to toxicologists, occupational medical doctors, and industrial hygienists in the Washington D.C. area, covering a range of investigation and research related to occupational exposures.

Mr. Kahane possesses extensive expertise in the sampling and analysis of: asbestos in various matrices; heavy metals in various matrices; PCBs and pesticides in biological tissue, transformer oils, air, and soil; bioaerosols, including fungi and bacteria; trace evidence routinely screened in criminal or civil casework; biological evidence routinely screened in criminal or civil casework.



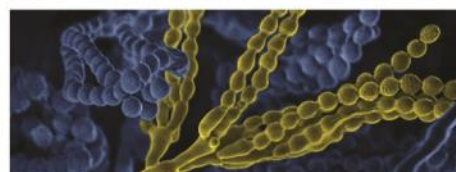
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2018 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Tuesday, December 11, 2018

Morning Session Theme - "Wildfire Response and Recovery"

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

8:00 a.m. Session Chair Welcome and Introductions — *Dennis M. Robinson, D.Env., CIH, Program Manager, Pacific States Environmental Contractors*

8:10 a.m. Exposure and Health Impacts of Smoke for Wildland Firefighters Bangladesh — *Kathleen Navarro, PhD, MPH, US Forest Service*

9:00 a.m. A State Agency Perspective on Post-Fire Debris Cleanup — *Todd Thalhamer, PE, Sr. Waste Management Engineer, Cal/Recycle*

9:50 a.m. Exhibitor Demonstration and Exhibits

10:20 a.m. Potential Exposures & Health Hazards in Wildfire Response — *Judith Eisenberg, MD, MS, Lieutenant Commander, United States Public Health Service, Medical Officer, Hazard Evaluations and Technical Assistance Branch, NIOSH*

11:10 a.m. Impact of Wildfires to Neighboring Communities — *Michelle Rosales, MPH, CIH, Forensic Analytical Consulting*

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

Afternoon Session Theme - "Emerging Issues"

1:30 p.m. Session Chair Welcome and Introductions — *Megan Canright, MPH, CIH, CIHC Board, Forensic Analytical Consulting*

1:35 p.m. Workplace Violence — *Jessica Smith Penhall, BSI Group*

2:20 p.m. Surface Disinfection in Healthcare — *Erica Stewart, CIH, FAIHA, HEM, Kaiser Permanente*

3:00 p.m. Exhibitor Demonstration and Exhibits

3:30 p.m. Legionella Amplification in Carbon Filters — *Robert McNeely, CIH, Branch Manager and Senior Project Manager, Forensic Analytical Consulting Services, Inc*

4:15 p.m. Simulation Studies to Evaluate Safety Risks: Case Study with Lithium Ion Batteries — *Will Cyrs, MS, CIH, Supervising Health Scientist, Cardno ChemRisk*

5:00 p.m. Conference Day Two Adjourns

5:30-7:00 p.m. EVENING SOCIAL—HALF DOOR BREWING CO., 903 Island Avenue (Corner of Ninth Ave— Near Petco Park)



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Exposure and Health Impacts of Smoke for Wildland Firefighters



Kathleen Navarro, PhD, MPH

Forest Planning Specialist
Manti-La Sal National Forest
US Forest Service

Kathleen Navarro works for the United States Forest Service (USFS) and is qualified as a wildland firefighter. She has evaluated wildfire smoke exposure (particulate matter, carbon monoxide, and polycyclic aromatic hydrocarbons) for the public and wildland firefighters through direct monitoring at wildfires. Currently, she is using field collected smoke exposure measurements to estimate risk of lung cancer and cardiovascular mortality for wildland firefighters. Kathleen completed her PhD in the Environmental Health Sciences at the UC Berkeley School of Public Health, where she also completed her MPH degree in 2011. Her dissertation combined traditional methods of exposure assessment with new approaches to evaluate exposures in ambient community and occupational settings to air contaminants commonly emitted from wildfires. She has a Bachelor of Science degree in Environmental Toxicology from UC Davis.

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A State Agency Perspective on Post-Fire Debris Cleanup



Todd Thalhamer, PE Sr. Waste Management Engineer CalRecycle

Todd Thalhamer is a registered civil engineer and a senior waste management engineer for CalRecycle. He recently retired from El Dorado Hills Fire Department as a Lieutenant after 19 years of service. He received his Bachelor of Science degree in Environmental Resource Engineering from Humboldt State University in 1992. After four seasons as a wildland firefighter for CalFire, he began working for the California Integrated Waste Management Board (now CalRecycle) in 1992 as a waste management engineer. During his 25 years in the waste industry, he has managed many environmental responses, large scale debris operations, and hazardous waste removal projects. Todd has been responsible for a number of large-scale suppression responses at major waste facilities throughout the United States, Canada, and overseas. He is currently working for the World Bank on a large-scale landfill fire resulting from the two hurricanes that impacted the island of Saint Maarten. One of Todd's duties during natural disasters is acting as CalRecycle's Operations Section Chief for debris recovery projects where he has managed the hazardous and solid wastes from residential and commercial structures destroyed by wildfires.

Todd designed and implemented California's first Structural Wildfire Ash and Debris Removal Program for Private Property Debris Removal (PPDR) for the California Governor's Office of Emergency Services (Cal OES) in 2007. Last year this plan was used by the US Army Corps of Engineers for Federal Emergency Management Agency (FEMA) funded PPDR disaster work at over 8,000 residential and commercial properties. He currently is performing engineering duties for state and federally funded disaster operations including developing scopes of work for emergency/temporary bridge crossings, sampling strategies, soil backfill projects, hazmat responses, commercial waste removal, and site characterizations.

Todd has performed duties as the Incident Commander/Operations Chief/Disaster Matter Expert for multiple FEMA and Cal OES funded debris operations in El Dorado, Butte, Calaveras, Lake (4x), Mono, Nevada, San Bruno, Ventura, and Yuba Counties. Coordinated the removal of over 3,000 residential structures and other debris; directly supervised a debris incident command team that consisted of multiple state and county agencies, contractors, waste haulers, environmental consultants, and health and safety consultants and worked with both FEMA and local government representatives during the responses.

Todd has also designed and implemented debris removals for snow and during extreme weather conditions, and acts a liaison to local government, schools, and community members at public meetings for multiple PPDR projects. To add to his debris experience, he has recently completed a number of abandoned vessels removal projects in the waters of SF Bay Area, Delta, and Lake County.

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Potential Exposures & Health Hazards in Wildfire Response

Judith Eisenberg, MD, MS

*Lieutenant Commander, United States Public Health Service
Medical Officer*

*Hazard Evaluations and Technical Assistance Branch
National Institute for Occupational Safety and Health (NIOSH)
Centers for Disease Control and Prevention (CDC)*

Dr. Eisenberg is Board Certified in Emergency Medicine and has been a medical officer in the NIOSH Health Hazard Evaluation (HHE) program since 2004 and has conducted numerous HHEs nationwide. She is a recognized subject matter expert on heat stress and rhabdomyolysis. She has provided guidance for responders to the 2010 Deepwater Horizon Oil Spill, 2014 Ebola crisis, and multiple hurricane cleanup efforts. She began working with wildland fire fighters in 2010 at the request of the National Wildfire Coordinating Group regarding cases of rhabdomyolysis. Dr. Eisenberg has conducted several HHEs regarding exposures to both wildland and structural fire fighters. She authored tailored fact sheets on rhabdo for wildland and structural fire fighters and their healthcare providers that were posted to the NIOSH Fire Fighter Resource webpage in June 2018.

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Impact of Wildfires to Neighboring Communities



Michelle Rosales, MPH, CIH

Senior Project Manager
Forensic Analytical Consulting

EDUCATION

MPH, Industrial Hygiene, University of California, Los Angeles, 2005

BSRT, Radiological Technology, California State University of Northridge, 2002

CERTIFICATIONS AND REGISTRATIONS

Certified Industrial Hygienist, Comprehensive Practice. Certificate # CP 9577

PROFESSIONAL EXPERIENCE

Michelle has over 12 years of experience in environmental health and industrial hygiene services arena. She has conducted hundreds of investigations involving a variety of physical, chemical and biological hazards in occupational and community settings. These projects required in-depth investigative research and sampling, data interpretation, and preparation of reports with recommendations and conclusions.

Michelle is also involved in litigation support and oversight for numerous complex litigation claims for both plaintiff and defense attorneys. These projects also require in-depth investigative research, sampling, and data interpretation, preparation of reports with recommendations and conclusions, and the involvement in litigation procedures.

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Workplace Violence

Jessica Smith Penhall

BSI Group

Ms. Penhall has 14 years of experience in environmental, health and safety regulatory requirements and project management. She currently is responsible for managing the California Environmental and Healthcare Team of over 20 consultants and ensuring the successful delivery of those technical services. Ms. Penhall has accumulated experience in environment, health and safety management systems from program creation to implementation and documentation including workplace violence, comprehensive EH&S audits, lockout/tagout, confined space, emergency evacuation, hazard communication, heat illness prevention, respiratory protection, exposure control programs, IIPP, ergonomics, asbestos and lead, and much more. She has been responsible for the direction and implementation of safety programs including risk assessment, needs prioritization, program and training development, safety committee leadership, training delivery and coordination, and recordkeeping.

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Surface Disinfection in Healthcare

Erica Stewart, CIH, FAIHA, HEM

Principal Consultant
National Environmental, Health and Safety
Kaiser Permanente

Erica Stewart has over 30 years' experience in the occupational health and safety field, the last twenty-odd at Kaiser Permanente. In her current position, Erica is responsible for developing, organizing, and managing nationwide initiatives in collaboration with other departments, including procurement and facility design teams, to ensure that Kaiser Permanente's building designs, medical devices and products incorporate measures that eliminate or control chemical exposures and increase indoor environmental quality. Erica has BS in Biochemistry from San Francisco State University and is a Certified Industrial Hygienist and Fellow of AIHA, and a Member of ASHRAE and the USGBC Technical Advisory Group on IEQ.

Speaker Experience:

Erica has spoken at various national and international conferences on the subjects of industrial hygiene, indoor air quality, Prevention through Design, environmentally preferable purchasing and green chemistry. Conference hosts include: The American Industrial Hygiene Conference and Exposition, American Society of Heating, Ventilation and Air-Conditioning Engineers, American Society of Safety Engineers, British Occupational Hygiene Society, CleanMed, Healthy Building, Indoor Air, International Conference on the Impact of Environmental Factors on Health, International Occupational Hygiene Association, Japan Association for the Advancement of Medical Equipment, and Minnesota Nurse's Association.



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Legionella Amplification in Carbon Filters



Robert McNeely, CIH

Branch Manager and Senior Project Manager
Forensic Analytical Consulting

Robert McNeely has more than 15 years of professional experience in the industrial hygiene community. Robert regularly interfaces with project managers, field technicians and administrative staff regarding project assignments, project progress and overall customer satisfaction, while managing a variety of large-scale, high profile projects. He has progressive experience as a Branch Manager and Senior Project Manager with a proven ability to manage multiple large scale and high profile clientele. Robert is proficient in managing simultaneous projects while working independently and consistently meeting deadlines.

Robert has performed numerous Legionella assessments within potable and non potable water systems for a variety of property types. The variety of assessments performed varied from a single family dwelling to 3,000 room hotels. Robert has performed assessment to determine the source and extent of Legionella amplification and to suggest corrective action. Robert has also provided oversight of corrective action implementation and remediation activities. He has performed long term verification and validation sampling for efficacy of Legionella control measures, and worked with local health authorities to ensure buildings that are linked to Legionellosis are adequately addressing the issue.

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Simulation Studies to Evaluate Safety Risks: Case Study with Lithium Ion Batteries



Will Cyrs, MS, CIH

Supervising Health Scientist
Cardno ChemRisk

Mr. William Cyrs is a Supervising Health Scientist with Cardno ChemRisk. His principal areas of training and expertise include industrial hygiene, exposure assessment, exposure reconstruction, hazard communication, occupational exposure limit development or management, and aerosol technology with an emphasis on nanoparticles. He has analyzed data or assessed risk regarding 2,3-pentanedione, acrylonitrile-butadiene-styrene or ABS, asbestos, BTEX, carbon monoxide, diacetyl, formaldehyde, hydrogen sulfide, paint volatiles, general VOCs, and welding fume exposure. Mr. Cyrs is experienced in determining contaminants of potential interest to design industrial hygiene sampling protocols for various occupational scenarios, and has performed numerous simulated exposure reconstructions, one of which he will discuss today.

CIHC Evening Social Event

At Half Door Brewing Co.

Tuesday, December 12th

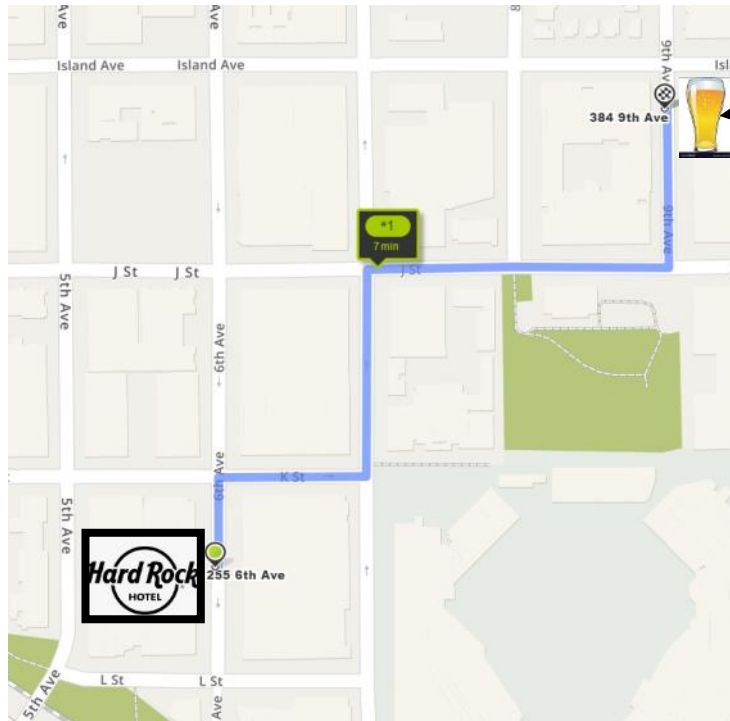
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2018 CIHC

PROFESSIONAL DEVELOPMENT SEMINAR

Wednesday, December 6, 2018

Morning Session Theme - "Construction Issues "

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

8:00 a.m. Session Chair Welcome and Introductions— *Tim Bormann, CIH, FAIHA Vice President, The Cohen Group*

8:05 a.m. Competent Person: Requirements and How to Comply — *Tim Bormann, CIH, FAIHA, Vice President, The Cohen Group*

9:05 a.m. Use of Drones in Construction – *Max Schurkamp, Senior VDC Field Manager, McCarthy Holdings, Inc.*

9:55 a.m. Break

10:10 a.m. Silica in Construction: Cal/OSHA Update – *Patrick Corcoran, MPH, CIH, Senior Safety Engineer, Cal/OSHA Consultation Services*

11:00 a.m. Occupational Coccidioidomycosis: Two Case Studies – *Mark Nicas, PhD, CIH, Emeritus Professor, School of Public Health, University of California, Berkeley*

Noon-1:10 p.m. Lunch on Your Own

Afternoon Session Theme - "Experiences from Seasoned OEHS Professionals: What I Know Now That I Wish I Knew Then"

1:10 p.m. Session Chair Welcome and Introductions — *Pamela Murcell, MS, CIH, CIHC Board President, KWA Safety & HazMat Consultants, Inc.*

1:15 p.m. How I Earned My Gray Hair (or what's left of it) — *Howard Spielman CIH, CSP, REHS, President, Health Science Associates*

2:00 p.m. Good Things Happen on the Detours to Life — *Chris Laszcz-Davis, MS, CIH, REPA, FAIHA, AIC Fellow, President, The Environmental Quality Organization, LLC*

2:45 p.m. Break

3:00 p.m. Around the IH World in 30 Years — *Richard Hirsh, MPH, CIH, FAIHA, Director, Environmental Health and Safety, Nektar Therapeutics*

3:45 p.m. Business Case of Safety: Examples Lived for Success — *James Boretti, CSP, President / CEO, Boretti, Inc.; Regional Vice President of Region 1, American Society of Safety Professionals*

4:30 p.m. Closing Remarks & Conference Ends— *Joel Berman, CIH, CSP, CIAQM, CAC, Conference Co-Chair, CIHC Board Vice-President, Health Science Associates*



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Competent Person: Requirements and How to Comply

Tim Bormann, CIH, FAIHA

Vice President
The Cohen Group

Mr. Bormann has been employed by The Cohen Group since 1984 where he is Vice President and Senior Occupational Safety and Health Consultant. He has over 35 years of experience in the environmental safety and health field. Mr. Bormann graduated from University of California at San Diego with a BS degree in biology/physiology and minor in chemistry. He is an ABIH-certified industrial hygienist and a Cal/OSHA Certified Asbestos Consultant. Mr. Bormann has been recognized by his peers and presented with the Fellow award from the American Industrial Hygiene Association for his contribution to the practice of industrial hygiene. He has served as chair for the American Industrial Hygiene Association committee on Construction which was recognized by the American Industrial Hygiene Association as the outstanding committee. He is currently the president of the Northern California Chapter of the AIHA. He has reviewed and conducted hundreds of assessments for construction activities including review and training of competent person requirements.

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Use of Drones in Construction

Max Schurkamp

Senior VDC Field Manager
McCarthy Holdings, Inc.

Max Schurkamp is a Senior VDC Field Manager who works for McCarthy Holding's Inc. Max has been with McCarthy for over 6 years and specializes in design/field to field/design coordination using the latest technologies in construction while utilizing 3D-Laser Scanning and Drone imagery for various tasks.

Before starting work with McCarthy, Max spent 12 years in the survey industry where he worked on numerous construction projects assisting with project design and layout. After a successful career of helping projects with various design/layout tasks, Max now manages a self-perform layout/design group at McCarthy in their Northern Pacific Division.

Max enjoys spending time with his family, coaching, the outdoors and anticipating any adventure his 4 girls throw in his direction.

Max is available for any questions and information regarding 3D-Laser Scanning and Drone use for Construction. You can reach Max at Eschurkamp@McCarthy.com

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Silica in Construction: **Cal/OSHA Update**

Patrick Corcoran, MPH, CIH

Senior Safety Engineer
Cal/OSHA Consultation Services

Patrick Corcoran MPH, CIH is a senior safety engineer with Cal/OSHA's Consultation Service. Mr. Corcoran has 18 years' experience with Cal/OSHA, including 5 years as Cal/OSHA's Training Coordinator. In that capacity he taught in Cal/OSHA's internal courses on Air Sampling, Construction Health Hazards, Confined Spaces, Laboratory Safety, Aerosol Transmissible Diseases, and Respiratory Protection. He spent more than 11 years in Cal/OSHA Enforcement where his duties included conducting air sampling and investigations of accidents, complaints, and programmed visits involving the construction industry. He has a bachelor's degree in chemistry cum laude from the University of the Pacific in Stockton, and a Master of Public Health in Environmental Health Sciences from the University of California at Berkeley. He works as a part-time faculty member at California State University, Sacramento where he teaches courses in Occupational Health and Occupational Safety & Health Laws and Regulations. He is currently the President of the Sacramento Valley Section of AIHA. His only hobby consists of trying to keep up with his three kids.

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Occupational Coccidioidomycosis: Two Case Studies

Mark Nicas, PhD, CIH

Emeritus Professor

School of Public Health, University of California Berkeley

Dr. Mark Nicas is an Emeritus Professor, School of Public Health, University of California, Berkeley, where he worked for 25 years. He has a PhD and MPH in Environmental Health Sciences from UC-Berkeley, a MS in Genetics from the University of Wisconsin, and a BS in Biology/Chemistry from the City College of New York. He has been a practicing industrial hygienist for 41 years and a CIH for 32 years. His academic research has been in three areas:

(1) exposure and risk assessment for microbial pathogens including *M. tuberculosis*, *C. immitis* and influenza virus, (2) the mathematical modeling of airborne chemical exposure intensity, and (3) variability in the efficacy of respiratory protection.

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How I Earned My Gray Hair **(or what's left of it)**

Howard Spielman, CIH, CSP, REHS

President
Health Science Associates

Howard Spielman achieved his B.S. in Public Health from UCLA in 1956 and his M.A. in Health and Safety Science from CSULA in 1967. He is a Certified Industrial Hygienist, Certified Safety Professional, Registered Environmental Health Specialist, Certified Asbestos Consultant and Certified Lead Inspector/Assessor and Project Monitor.

He has worked as an Industrial Hygienist for the City of Los Angeles for 4 years and for Northrop Corporation for 5 years. He was the Corporate Manager of Environmental Health and Safety of Hughes Aircraft Company for 7 years and the for the past 45 years he has been the president of Health Science Associates, a full service consulting, technical and training firm specializing in occupational health and safety and environmental solutions and litigation support.

Mr. Spielman is a Fellow member of the American Industrial Hygiene Association (AIHA) and past-president of the AIHA's Southern California Local Section. He was the founding president of the California Industrial Hygiene Council (CIHC) and continues to serve on its Board of Directors. Over the years, he has served on numerous Cal/OSHA and CDPH advisory committees and AIHA technical and advisory committees. He currently serves as a member of the ASSE Professional Safety journal editorial board and Cal/OSHA's Health Expert Advisory Committee (HEAC).

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Good Things Happen on the Detours to Life

Chris Laszcz-Davis, MS, CIH, REPA, FAIHA, AIC Fellow

President

The Environmental Quality Organization, LLC

As Founder & President of The Environmental Quality Organization (EQO) LLC, Chris Laszcz-Davis has over thirty-five (35) years of executive management, professional, operational, technical and consulting experience in occupational safety & health, environmental affairs, operational integrity, risk management, product stewardship/product quality, strategic planning, auditing, and corporate acquisitions/divestitures in industry and government.

As former Corporate Vice-President, Environmental Affairs, Health, Safety (EH&S), Product Stewardship & Operational Integrity for Kaiser Aluminum & Chemical Corporation, Chris helped lead the corporation's initiatives to reshape its safety culture, expand its global EH&S horizons to address the full life cycle of its organization's aluminum, refractory and chemical operations, and integrate its EH&S workings into the fabric of the operational line organization. Prior to industry, Chris worked for the US Department of Energy (DOE) in both Washington DC and the west coast as a regional EH&S Manager and at the University of California Lawrence Livermore National Laboratories.

Chris is a Fellow of both the national American Industrial Hygiene Association (AIHA) and American Institute of Chemists (AIC), a recipient of the national AIHA Kusnetz Award, the national AIHA Alice Hamilton Award, the AIHA-Yuma Pacific Southwest Section Clayton Award and the AIHA-Northern California Section Dr. Christine Einert Award. As Past President, American Academy of Industrial Hygiene (AIH), Chris was instrumental in having the profession sponsor its first major Fall Conference on Risk Assessment in Vancouver, British Columbia, Canada back in the early 1990's. Industrial Safety & Hygiene News (IHSN), with a readership of over 100,000 nationally, recognized Chris as one of the 101 most influential EHS leaders in the country in 2011-2012.

Service to the global professional community has earmarked Chris's career. Over the years, she has served as a Director, American Conference of Governmental Industrial Hygienists (ACGIH), American Industrial Hygiene Association (AIHA), and the American Board of Industrial Hygiene (ABIH); Trustee, American Industrial Hygiene Foundation (AIHF); Appointee to both the International Occupational Hygiene Association (IOHA) and American Association for the Advancement of Science (AAAS); U.S. Department of Commerce appointed member, Board of Examiners, Malcolm National Quality Award; and President of both AIHA's Northern California and Yuma Pacific Southwest Local Sections.

She is presently Co-Chair of the global Occupational Hygiene Training Association (OHTA), member of NIOSH's Board of Scientific Counselors (BSC); management representative to Ca/OSHA's influential Standards Board; appointee to ASSE's Council on Professional Affairs (COPA), and Past-President and ongoing Advisor to the California Industrial Hygiene Council (CIHC), a state wide EH&S legislative advocacy group focused on bringing sound science into the region's very active legislative/regulatory process.

Chris lectures and speaks frequently on emerging issues and leadership, has chaired numerous EH&S conferences, authored numerous articles and chapters, and been instrumental in orchestrating national tele-webs on various subjects. She continues to assume collaborative leadership team building and mentoring roles in bringing cutting edge subjects (such as climate change, sustainability, enterprise risk management, product stewardship, risk assessment, exposure limits and renewable energy alternatives) into the EH&S dialogue. Chris received her Bachelor of Science (BS) degree in Chemistry and Biology from Notre Dame and her Masters of Science (MS) degree in Environmental Health Sciences from the University of Minnesota.

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Around the IH World in 30 Years

Richard Hirsh, MPH, CIH, FAIHA

Director
Environmental, Health & 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 immuno-oncology, auto-immune diseases, 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, a dermatological pharmaceutical firm and 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 (CIHC) representative for the Northern California local AIHA section. In that capacity he represents CIHC on the California Partnership for Young Worker Health and Safety. He recently served on the AIHA International Scientific Planning Committee for the International Occupational Health Association (IOHA) Conference held in September 2018. 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. He also serves on the Board of Directors for Workplace Health Without Borders – US Branch as well as on the Advisory Committees for the Centers for Occupational and Environmental Health at both the University of California and University of Michigan.

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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Business Case of Safety: **Examples Lived for Success**

James Boretti, CSP

CEO, Boretti, Inc.

Regional Vice President of Region 1, American Society of Safety Professionals

With over 30 years of experience, James has an extensive background in the field of Safety & Health. James is President of Boretti, Inc., a professional SH&E firm providing a broad range of technical and business safety solutions. He has successfully consulted with a wide range of clients and industries, including healthcare, manufacturing, television, construction and agricultural environments. His efforts have resulted in measurable improved operational efficiency and productivity, lowered insurance rates, reduced claims frequency, and OSHA compliance.

James is Regional Vice President of Region I for the American Society of Safety Professionals and a frequent speaker for them. He is a Certified Safety Professional (CSP), a Professional Member of the ASSP, and former member of the ASSP Code of Conduct Committee. He teaches safety courses for the University of California, Irvine, in ergonomics and sustainability / social compliance. James is well versed in ISO and other non-governmental organization (NGO) voluntary and marketplace certifications for safety, environmental, and sustainable operations.

Final Notes

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