The Premier Conference and Exposition for Occupational and Environmental Health and Safety Professionals

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Final Program

Philadelphia, PA ★ May 21-23

PDCs: May 19, 20, and 24

The Premier Conference and Exposition for Occupational and Environmental Health and Safety Professionals

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Welcome to AIHce EXP 2018

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Welcome to AIHce EXP 2018

Our comprehensive benefits package includes: competitive pay, paid federal holidays, paid vacation, paid sick leave, worldwide locations, career advancement pathways, training opportunities, great health and life insurance, 401k type retirement program with generous matching, and much more. For more information visit: www.secnav.navy.mil/donhr/benefits.

How to Apply:
1. Go to: USAJobs.gov and create an account
2. Build and upload your resume
3. Search for job series 0690 - Industrial Hygienist, or 0640 - Industrial Hygiene Technician
4. Apply!

For additional information contact: Diane Griffin, Industrial Hygiene Recruiter, Office of Civilian Human Resources, Philadelphia at (215) 697-0379.
Enhance Your AIHce EXPerience Through the App!

Download the conference mobile app today to receive a deeper EXPerience, thanks to our app sponsor SiteHawk!

- Access maps and search exhibitors to plan your Expo Hall visits
- Set a personalized schedule and agenda
- Network with colleagues and friends, both old and new
- Private messaging available
- Share images and thoughts in the EXPERIENCE feed
- Play the CODENAME: IH Scavenger Hunt for a chance at great prizes
- Info available even when you can’t get WiFi or cellular connections
Conference events are held at the Pennsylvania Convention Center (PCC) unless otherwise noted. This includes education sessions, the Expo, the Hub, Speaker Ready Room, and the Career Advantage Development Fair. Volunteer groups and committees and Late Night Learning sessions will be held at the Marriott. A full listing of events may be found in the Schedules-at-a-Glance in the Final Program and on the AIHce EXP 2018 Mobile App.

Badges
Arch Street Bridge (2nd Floor), PCC Registrants MUST wear a name badge to be admitted to all AIHce EXP sessions and events, including social activities. Tours, AIHF activities, and selected social activities also require a ticket. Once tickets are purchased, fees are nonrefundable; however, ticket exchanges may be permitted pending availability. After one initial reprint, there is a $5.00 charge for a lost badge or ticket replacement.

Children
Children and young adults 18 and under are not permitted at any AIHce EXP 2018 events (including courses, sessions, socials, or in the Expo).

CIH Requirements
AIHce EXP 2018 attendees are eligible to earn up to 20 contact hours for full participation in general sessions, education sessions, and Late Night Learning sessions.

For detailed information about CIH requirements, contact ABIH directly at www.abih.org or visit the ABIH Booth (Booth 1026) while on-site.

Emergencies, First Aid, and Assistance
The safety and security of attendees and staff is the first priority of AIHA and the PCC. If a medical emergency occurs in the PCC, contact PCC Security Command Station at 215-418-4911 or by dialing ext. 4911. We respectfully request that you do not call 911 directly.

A first aid station staffed daily by an EMT, Saturday – Thursday, is located in the back of Hall A.

In the Marriott, contact Marriott Security Control Office by dialing ext. 51 from any house phone in the facility.

Evaluations
PDC evaluations will be emailed to those who have attended courses, or you can access them via the AIHce EXP mobile app. AIHce attendees will receive a nightly email to evaluate the sessions you attended that day. Your feedback is appreciated and will be used to improve AIHce.

Expo
Exhibit Hall A, PCC
Monday, 9:00 a.m. - 5:30 p.m.
Tuesday, 9:00 a.m. - 3:00 p.m.
Wednesday, 8:00 a.m. - 1:30 p.m.
NEW in 2018! Access to the Expo is now available via the Hub during open hours of the Expo only.

Do your gadgets need a boost after all the note taking, tweeting, and mobile app surfing you’ve been doing? Visit the AIHA Booth (1039).

Final Program
Each attendee receives one copy of the Final Program as part of registration. Additional copies may be distributed on Wednesday, based on availability. Descriptions of individual sessions may be found in the AIHce EXP 2018 mobile app.

Lost and Found
Information Desk, Arch Street Bridge, PCC
Lost and found items may be requested from the Information Desk on the 2nd Floor (Arch Street Bridge) in between Halls A and B. AIHce will turn items into PCC security each evening.

Mother’s Room
The PCC offers two Mamava Nursing suites, one located between Halls A and B, the other on street level on the Broad and Arch Concourse.

Speaker Ready Room
Room 107, PCC
Friday, 3:00 p.m. - 4:00 p.m.
Saturday – Sunday, 7:00 a.m. - 5:30 p.m.
Monday – Tuesday, 8:00 a.m. - 4:00 p.m.
Wednesday, 8:00 a.m. - 2:00 p.m.
Thursday, 7:00 a.m. - 5:00 p.m.
Check-in is mandatory. Visit the Speaker Ready Room at least 60 minutes prior to the start of the session.

Children
Children and young adults 18 and under are not permitted at any AIHce EXP 2018 events (including courses, sessions, socials, or in the Expo).

OnDemand
AIHce EXP OnDemand is the package of session recordings and is included with full conference registrations. Recordings will be available 6-8 weeks following the conference, and you will have access through December 31, 2018. Once available, you will receive an email with access and credit instructions. Credit is available for viewing the recordings. Detailed information will be included in the notification email.

Technical Tours
Gather for your tour inside the doors of the entrance to the PCC from 12th and Arch Streets (outside Room 107) at least 15 minutes prior to published tour departure. Attendees interested in waiting-listing for tours will be taken on a first-come, first-served basis after payment of tour fees if slots open on individual tours.

Disclaimer: The viewpoints and opinions expressed in the presentations, sessions, and discussions at AIHce EXP have not necessarily been approved or endorsed by AIHA or ACGIH.

Schedule Changes: The AIHce EXP 2018 schedule is correct at the time of publication. AIHce reserves the right to change or cancel sessions, presentations, or speakers without notice due to circumstances beyond its control. For the most up-to-date schedule, check the mobile app.
Special Events

AIHce EXP Meetup Merry-Go-Round
Presented by Catalyst

Sunday, 5:15 p.m. – 6:30 p.m.
Grand Hall, PCC

Kick off the conference by connecting with friends and meeting new colleagues. You’ll be asked to group into 1 of 8 areas based on your responses to three questions asked during registration:

What is your number one goal during AIHce 2018?
What is your favorite drink?
What is your favorite movie/TV genre?

Here, you’ll get to meet other professionals who responded with the same answer. Swap cards; trade phone numbers or emails; and get a signature on your Merry-Go-Round card… 20 minutes later, we’ll switch groups and do it all over again. Complete your card and enter to win a Philly gift card! Your conference badge is required to attend this event.

First Timers’ Meet and Greet
Sponsored by DuPont

Monday, 6:30 a.m. – 7:30 a.m.
Grand Ballroom H, Marriott

First time attending? Hear tips on how to maximize your overall conference experience and meet other first-time conference-goers.

Refresh and Recharge Snack Breaks
Exhibit Hall A, PCC

AIHce EXP is thrilled to introduce these great networking events on the Expo floor. Mix, mingle, network, and grab some snacks as you meet exhibitors, visit with colleagues, and learn about new products and services from AIHA and ACGIH. Your conference badge is required to attend these events.

Monday, 12:00 p.m. – 2:00 p.m.
Afternoon Healthy Break – Healthy snacks will help boost your energy for more education, networking, and the evening’s events!

Monday, 4:30 p.m. – 5:30 p.m.
Expo Hall Networking Reception – This annual networking tradition gets the night started with some tasty nibbles and a free drink (ticket included in badge materials).

Tuesday, 9:00 a.m. – 10:00 a.m.
Coffee and Pastries – Start your morning with some coffee and a bagel or pastry. This a great time to chat with exhibitors about products and services that can help improve your workplace.

Tuesday, 9:00 a.m. – 10:00 a.m.
Barista Bar presented by Catalyst – Exclusively in AIHA Booth 1039
AIHA’s new Catalyst Community launches at AIHce EXP! Visit Booth 1039 to walk through the system, sign up, and start posting – and grab an espresso to jump start your Tuesday EXPerience!

Tuesday, 12:00 p.m. – 2:00 p.m.
Hank’s Ice Cream Float Bar presented by The Synergist – Hanks’ Gourmet Beverages is a Philly family business. Enjoy a float featuring one of their 7 famous flavors!

Wednesday, 11:30 a.m. – 1:30 p.m.
Build Your Own Trail Mix – Fuel your brain for a strong finish to AIHce EXP 2018. What a perfect grab-and-go for your train, drive, or flight home!

The Hub
Exhibit Hall B, PCC

AIHce is thrilled to bring back last year’s success, The Hub. This spot for interactive learning, health and wellness activities, posters, table topics, CareerAdvantage, and a spot to sit and catch up on emails, has been expanded this year to include live cooking demonstrations by Chef Tess and access to the Exhibit Hall during open Expo hours! You won’t want to miss the excitement happening at the center of it all – AIHce EXP’s Hub!

32nd Annual AIHF Fun Run
Tuesday, 6:30 a.m. – 8:00 a.m.
Lace up your running shoes and run 5k or walk 2k. All participants (individual runners and sleep-in entries) must check-in at the Fun Run desk (Arch Street Bridge, PCC). Hours:
Sunday, 12:00 p.m. - 5:00 p.m. and Monday, 8:00 a.m. - 5:00 p.m.

Thank you to this year’s Fun Run sponsors!

AIHce POWER HOUR
Sponsored by MSA

Tuesday, 6:30 p.m. – 7:30 p.m.
Grand Ballroom H, Marriott

You are invited to attend this “see and be seen” annual event! Your conference badge is required to attend.

Mark of Excellence Breakfast
Wednesday, 7:00 a.m. – 8:30 a.m.
Ballroom AB, PCC

The AIHce EXP Mark of Excellence Breakfast is a celebration of the extraordinary contributions made by members and the volunteer community to the industry and the profession. Celebrate the achievements of each awardee while networking and enjoying a delicious breakfast buffet. This event is included in your registration, but pre-registration is required.
What Is a Résumé vs. Curriculum Vitae (CV)?
• Sharon Sperber, CIH
• Nancy Lawrence, PhD
• Bill Nichols, CHMM

Monday, May 21, 11:00 a.m. – Noon
Job searching can be one of the most challenging and stressful times in a person’s life. Developing a résumé is not an easy task for many people, as we strive to relay all essential and professional information about ourselves in effort to gain a leg up on the competition. In an effort to assemble the perfect résumé, we sometimes unknowingly list too much information and create a “book” on our work/life history. This “book” is considered a curriculum vitae, or CV, and is not a résumé. In this session, presenters will discuss the differences between the two and provide tips for enhancing your résumé.

Onboarding a New Industrial Hygienist: The Good, the Bad, and the Better
• Kristin Osterkamp, CIH, CSP
• Isabel Zuclich, MPH, CIH, CSP
• Mary Ellen Brennan, SPHR, SHRM-SCP

Monday, May 21, 2:30 p.m. – 3:30 p.m.
We live in a dynamic work environment: New industrial hygiene professionals are entering the workplace, and industrial hygienists are changing jobs more frequently than ever before. This seminar will focus on the aspects of onboarding a new IH professional—from the first day on the job through independent work. An example onboarding process will be presented as well as challenges, successes, and best practices. Multiple presenters working in private industry, government, and human resources will share their onboarding experiences. Audience participation is encouraged.

Mock Interviewing
Tuesday, May 22, 10:00 a.m. – Noon
See yourself through an employer’s eyes when you meet with an experienced hiring manager during a mock interview. You will receive helpful feedback and learn the most effective presentation of skills, abilities, and professionalism. Reserve your slot today by contacting Wanda Barbour at wbarbour@aiha.org to schedule your own personal session.

Speed Networking
Tuesday, May 22, 3:00 p.m. – 4:00 p.m.
Build lasting connections with colleagues from all professional levels and industrial settings at this innovative and fun networking event. It’s simple! Introduce yourself to a new colleague by spending 5 minutes with them as you try to match what you learn about them with a bingo spot on the “build your network” networking card. Use this opportunity to learn more about them before you move on to your next connection. There will be prizes for the top networkers! Don’t forget to bring plenty of business cards for this fun and exciting networking event.

Résumé Critiquing
Bring your résumé to the CareerAdvantage Development Fair to sign up for your individual résumé critiquing session with an experienced hiring director. You will get helpful feedback directly related to style, length, focus, use of accomplishments, keywords, and more.
• Monday, May 21
  9:00 a.m. – 11:00 a.m. and 1:00 p.m. – 2:30 p.m.
• Tuesday, May 22
  9:00 a.m. – 10:00 a.m. and 1:00 p.m. – 3:00 p.m.
• Wednesday, May 23
  9:00 a.m. – Noon
Students and Early Career Professionals Track
The following sessions are targeted specifically for students and those new to the profession:

- **Connecting Campuses**
  Monday, May 21, 2:30 p.m. - 2:55 p.m., Education in the Learning Zone, The Hub, Hall B

- **H3: Student Internships: Lessons Learned From the Field**
  Tuesday, May 22, 3:15 p.m. - 4:15 p.m., Room 111

- **J1: Real-Time Sensor Technology: Applications by IH Students**
  Wednesday, May 23, 10:15 a.m. - 11:15 a.m., Room 113BC

- **How Being Mentored Can Help You as a Student**
  Wednesday, May 23, 1:30 p.m. - 1:55 p.m., Education in the Learning Zone, The Hub, Hall B

First-Timers Meet and Greet
Sponsored by DuPont
Monday, May 21
6:30 a.m. - 7:30 a.m.
Marriott, Grand Ballroom H
First time attending AIHce? Meet other first-timers with whom you can network, partner with for sessions, and plan your evening activities.

SECP Table Topics: Q&A
Monday, May 21
12:00 p.m. - 1:00 p.m.
Table Topics Zone, The Hub, Hall B
Topics address issues of specific interest to young industrial hygienists and those new to the profession. Seating is first-come, first-served. The first 25 attendees to check in at this session will receive a discounted voucher for lunch.

- CIH Exam Prep: Studying and Preparing for the Exam
- CIH Exam Prep: Applying for the Exam
- Safety Matters
- “I’m Applying for Jobs That Require Travel, and I Could Use Some Advice”
- Networking for the Industrial Hygienist
- Getting Research Published in JOEH
- Communication Etiquette in the Digital Age

28th Annual Student Poster Session
Monday, May 21
3:15 p.m. - 4:15 p.m.
Student Posters Zone, The Hub, Hall B
Check out the scientific findings of your peers! Students will be on hand to discuss their research methods and results. Three posters will be selected “Student Best in Show”

“Best in Show” and awards given by AIHA Volunteer Groups will be presented on Wednesday morning at the Mark of Excellence Breakfast.

Student Local Sections Council Business Meeting
Tuesday, May 22
11:00 a.m. - 12:30 p.m.
Room 202A
Expand your network and join the conversation! This is your opportunity to meet student local section officers and members, learn about the role of student local sections, and share best practices. Anyone interested in creating a student local section is invited to attend.

Mentoring Program Networking Event
Hosted by the AIHA Mentoring and Professional Development Committee
Sponsored by ABIH
Tuesday, May 22
5:00 p.m. - 6:00 p.m.
This invitation-only event is open to participating members of AIHA’s Mentoring Program as well as individuals interested in being a mentor or having a mentor.
To learn more about the AIHA Mentoring Program, visit the AIHA Mentoring Booth 2012 in the Expo Hall.

Volunteer Group Meetings
Sunday, May 20 - Wednesday, May 23
Unless otherwise noted, Volunteer Group meetings are open to everyone. Over the course of four days, more than 47 volunteer groups will meet to discuss a variety of technical and nontechnical topics, including many that address the specific needs of industrial hygiene students and young professionals. Check the AIHce mobile app for a complete list of all AIHA Volunteer Groups meeting this week. The following are groups that focus specifically on the needs of students and early career professionals:

- Mentoring and Professional Development Committee Meeting
  Sunday, May 20, 7:00 p.m. - 9:00 p.m., Marriott, Room 405

- Students and Early Career Professionals Committee Meeting
  Monday, May 21, 6:00 p.m. - 8:00 p.m., Marriott, Grand Ballroom B
AIHA® and ACGIH®
Named Awards and Recognition

**AIHA® Fellows**
The 2018 Fellows will be recognized at the Mark of Excellence Breakfast on Wednesday, May 23. The Fellow pin ceremony will take place during the Fellows SIG meeting on Tuesday, May 22.

- **Charles L. Blake, CIH, FAIHA**
  Nominated by Bob Lieckfield Jr., CIH, FAIHA, Yuma Pacific Southwest Section

- **Murray Lee Cohen, PhD, CIH, FAIHA**
  Nominated by Hayley Rutt, North Texas Local Section

- **Eric Esswein, MSPH, CIH, CIAQP, FAIHA**
  Nominated by Bradley King, PhD, MPH, CIH, AIHA Rocky Mountain Local Section

- **Andrew Maier, PhD, CIH, DABT, FAIHA**
  Nominated by Jerald Ovesen, PhD, Toxicology Committee

- **Tuan N. Nguyen, MBA, CIH, CSP, ARM, FAIHA**
  Nominated by Bonnie L. Sander, M.S., CIH, CSP, and Mary O’Reilly, Ph.D., CIH, CPE, FAIHA

- **Julie M. Panko, CIH, FAIHA**
  Nominated by Frank, J. Pokrywka, EdD, CIH, Pittsburgh Local Section

- **Walter G. Rostykus, MSPH, CIH, CSP, CPE, FAIHA**
  Nominated by Blake McGowan, CPE

- **Philip A. Smith, PhD, CIH, FAIHA**
  Nominated by Lee Monteith, CIH, FAIHA, Real Time Detection Systems Committee

**AIHA® Named Awards**
All AIHA Named Awards will be presented at the Mark of Excellence Breakfast on Wednesday, May 23.

**Edward J. Baier Technical Achievement Award**
Sponsored by Bureau Veritas North America Inc., this award is given to the individual or group of individuals, company, organization or association that has made the most significant contribution to industrial hygiene in recent years through technical expertise, innovations or scientific advancement. The 2018 recipients are Shawn G. Gibbs, PhD, MBA, CIH; Elizabeth L. Beam, PhD, RN; Aurora B. Le, MPH, CPH; Jocelyn Herstein, MPH; Katelyn Jelden, MPH; and John-Martin J. Lowe, PhD. The recipients were nominated by Shawn G. Gibbs, PhD, MBA, CIH.

Mr. Gibbs is executive associate dean for academic affairs, interim associate dean for research and graduate studies and professor of environmental health at Indiana University. Ms. Beam is education researcher, UNMC Interprofessional Academy of Educators, at the University of Nebraska Medical Center—College of Nursing. Ms. Le is academic specialist: project coordinator/education specialist, Biosafety and Infectious Disease Training Initiative NIEHS WTP, Department of Environmental and Occupational Health, at the Indiana University School of Public Health—Bloomington. Ms. Jelden is program coordinator at University of Nebraska Medical Center. Ms. Jelden is program coordinator at University of Nebraska Medical Center. Ms. Jelden is program coordinator at University of Nebraska Medical Center. Mr. Lowe is assistant vice chancellor for interprofessional health security training and education, Office of the Vice Chancellor for Academic Affairs; associate professor of environmental, agricultural, and occupational health, College of Public Health; director of research, Nebraska Biocontainment Unit, Nebraska Medical Center; and executive council, Global Center for Health Security at the University of Nebraska Medical Center.

**Distinguished Service to AIHA Award**
This award recognizes distinguished service in the advancement of industrial hygiene, unique technical contributions to the aims and goals of AIHA®; proven leadership in the industrial/occupational hygiene profession, influence on public policy or social reform, or public and community service. The 2018 recipient is Allan K. Fleeger, CIH, CSP, FAIHA, who was nominated by Elizabeth Pullen, CIH, FAIHA.

Mr. Fleeger has been actively involved and contributing in substantial ways to AIHA since he joined in 1991. In 2000, he was chair of the Practices, Standards, and Guidelines Committee, and he also received the Kusnetz Award. In 2002, he co-authored the first edition of the “Industrial Hygiene Reference and Study Guide,” which has been a best-seller, especially for those newer industrial hygienists looking to become certified. He was a driving force behind the creation of the Future Leaders Institute, which has been successful in generating young leaders for AIHA, and he served as chair from 2005 to 2007. Mr. Fleeger went on to serve on the AIHA Board of Directors for 10 years (2004-2013), as director, treasurer, and president. Immediately after his term as president, he was active in the creation of the new Product Stewardship Society, serving as its inaugural president for three years (2013-2016). He also edited the...
Mr. Stenzel has been contributing to the industrial hygiene profession since 1975, starting out as plant health chemist, rising through the ranks to manager of industrial hygiene and health services at Hoechst Celanese and later director of health at Occidental Chemical Corporation. After retiring from Occidental, he established his own consulting firm, focusing on exposure assessment. He co-authored four chapters in “A Strategy for Assessing and Managing Occupational Exposures” (4th edition), in which he offered wisdom gained from decades of IH practice. An active member of the AIHA Exposure Assessment Strategies Committee for more than 25 years, Mr. Stenzel has also co-instructed PDCs at international, national, and regional AIHA conferences.

Donald E. Cummings Memorial Award

This award is bestowed on an individual who has made outstanding contributions to the knowledge and practice of industrial hygiene and who has been acknowledged for his or her contributions outside of the field of industrial hygiene. The 2018 recipient is Mark Stenzel, CIH, FAIHA, who was nominated by Susan Arnold, PhD, CIH, FAIHA, and Gurumurthy Ramachandran, PhD, CIH, FAIHA. The recipient will present the Cummings Award lecture.

Mr. Stenzel has been contributing to the industrial hygiene profession since 1975, starting out as plant health chemist, rising through the ranks to manager of industrial hygiene and health services at Hoechst Celanese and later director of health at Occidental Chemical Corporation. After retiring from Occidental, he established his own consulting firm, focusing on exposure assessment. He co-authored four chapters in “A Strategy for Assessing and Managing Occupational Exposures” (4th edition), in which he offered wisdom gained from decades of IH practice. An active member of the AIHA Exposure Assessment Strategies Committee for more than 25 years, Mr. Stenzel has also co-instructed PDCs at international, national, and regional AIHA conferences.

Kusnetz Award

Sponsored by the late Howard Kusnetz and Florence Kusnetz, this award honors a certified industrial hygienist who has reached his or her 40th birthday by May 1 of the year in which the award is presented, is currently employed in the private sector, exhibits high ethical standards and technical abilities, has provided for the highest standards of health and safety protection, and shows promise of leadership in the industrial hygiene profession. The 2018 recipient is Srinivas Durgam, CIH, who was nominated by James Couch, PhD, CIH, CSP, REHS/RS, and Diana Harrington Peroni, CIH.

Mr. Durgam is an accomplished EHS leader and coach with 12 years of experience in leading global EHS teams to enable sustainable innovation and execute on regional regulatory and global internal compliance EHS expectations. As the global EHS manager for General Electric, GE Additive, he is responsible for the development of EHS strategy for the GE and GE Additive business unit, including standardization of program, process, and infrastructure EHS requirements, and driving of best-practices-sharing projects and solving pain points across P&L additive manufacturing sites. He is responsible for the integration of the $1.5 billion acquisition of Concept Laser and Arcam, and enabling the sustainable adoption of additive manufacturing by connecting with industry thought leaders and academic and governmental agencies. Mr. Durgam is accountable for EHS performance of seven sites, 1,100 employees, and an operating budget of $1.2 million.

Social Responsibility Award

Sponsored by Bureau Veritas North America Inc., this award is presented to an individual, entity, group, or organization that works inside organizations to develop and promote practical solutions to social responsibility issues related to industrial hygiene or environmental health and safety issues. The 2018 recipient is Renae Goldman, CIH, FAIHA, who was nominated by Jennifer Dimitri, CIH.

As a lead IH, Ms. Goldman is responsible for strategic initiatives and addressing emerging issues. She defined and implemented health risk assessment and management approaches globally for products and processes involving nanomaterials. She was recognized with a 3M Circle of Technical Excellence Award (division level) for this work, and she led the corporate team in anticipating, influencing, and addressing nanotechnology related EHS/regulatory impacts. She plays a key role in continuous improvement of 3M’s Product Life Cycle Management processes and systems (with a focus on exposure risk assessment and management) and leverages them globally to strengthen health and safety aspects of stewardship and sustainability at 3M. Ms. Goldman served on the Global Product Stewardship Steering Team.

Congratulations to our 2018 Award recipients for their enduring professional dedication. All will be honored during the AIHce 2018 Mark of Excellence Breakfast on Wednesday, May 23, 7:00 a.m. - 8:00 a.m. in PCC, Ballroom AB

Alice Hamilton Award

This award is presented to an outstanding woman who has made a definitive, lasting achievement in the field of occupational and environmental hygiene through public and community service, social reform, technological innovation or advancements in the scientific approach to the recognition, evaluation, and control of workplace hazards. The 2018 recipient is Margaret M. Quinn, ScD, CIH, who was nominated by Robert F. Herrick, ScD, CIH.

Dr. Quinn has made significant contributions by advancing the scientific approach to recognition, evaluation, and control of health hazards across a wide range of workplace environments. She is a professor of occupational and environmental hygiene at the University of Massachusetts Lowell. She is certified in the comprehensive practice of industrial hygiene (CIH #3305) and is a long-time member of the AIHA and local section NEAIHA. Her career, which spans more than 30 years, has focused on public service, research, and teaching, and she is committed to positive change for worker health. For the past 15 years, Dr. Quinn has directed the Safe Home Care Project, funded by the National Institute for Occupational Safety and Health, to foster a healthy, productive home care workforce to care for our rapidly aging population. The focus of the Safe Home Care Project’s research and outreach are home care aides, who are among the lowest-paid workers in the United States and are predominantly female and racial/ethnic minorities. The Safe Home Care research team works with a large partnership network of home care agencies, labor unions, direct care workers, government, elder services, and community stakeholders.
Named Awards and Recognition

Henry F. Smyth Jr. Award
This award is presented to an individual who has recognized the needs of the industrial hygiene profession and has made major contributions to fulfill those needs, thereby contributing to the improvement of public welfare. The 2018 recipient is Cheryl L. Marcham, PhD, CIH, CSP, CHMM, FAIHA, who was nominated by Elizabeth Pullen, CIH, FAIHA. The recipient will present the Smyth Award lecture.

Ms. Marcham has a passion for industrial hygiene and safety and has continually searched for ways to contribute to the profession and make a difference in workers’ lives and community health. She has been active in many technical committees and is always looking for ways to bring our technical knowledge into practice. Recently, she has been researching and making presentations on electronic cigarettes, communicating the latest information about the little-known hazards of this popular device. She’s written a number of white papers on issues related to indoor air quality and has been active with the IEQ committee. She served on the AIHA Board of Directors from 2010 to 2013 as a director, and she has served as the local sections council vice chair and chair from 2013 to 2017; she was on the Board of Certified Safety Professionals from 2014 to 2017. For the safety programs she developed, the Oklahoma Worker Safety Policy Council recognized her with the 1998 Award of Excellence. She was also recognized by the Campus Safety Division of the National Safety Council /Campus Safety Health and Environmental Management Association in 1995, 1997, 1998, and 1999.

Yant Award
Sponsored by the Mine Safety Appliances Company, this award is presented annually for outstanding contributions in industrial hygiene or allied fields to an individual residing outside of the United States. The 2018 recipient is Andrea Sass-Kortsak, PhD, CIH, FAIHA, who was nominated by Lydia Renton, B.S., CIH, ROH, FAIHA.

Ms. Sass-Kortsak is one of the pioneers who spurred the growth of occupational hygiene in Canada. With over 35 years in the profession, she has helped provide the framework not only for the master’s program in occupational hygiene at University of Toronto but also for the Canadian registration body, the Canadian Registration Board of Occupational Hygienists. She was instrumental in the formation of the CRBOH in 1986 and was the first registrar (volunteer position). Ms. Sass-Kortsak was the chief examiner of the ROH for the early years of 1990 to 2004. As an educator and as associate chair and vice dean at the University of Toronto for over 30 years in the MOH (now MPH) program, she has taught, mentored, and impacted many occupational hygienists in Canada. Recently, she rejoined the Board of the CRBOH [she is a former president] to ensure continuity of the rigors of its exam processes.

President’s Award
This award is presented annually to an individual, task force, special interest group, or local section for outstanding contributions to efforts to achieve the mission of AIHA® during the presidency year. The 2018 recipient will be announced at the Mark of Excellence Breakfast.

2018 ACGIH® Awards
All ACGIH® Awards will be presented at the ACGIH® Membership Reception and Annual Meeting on Sunday and presented at the Mark of Excellence Breakfast on Wednesday.

Meritorious Achievement Award
This award is given to members of ACGIH® who have made an outstanding, long-term contribution to the progress of occupational health and environmental hygiene. The recipient of this year’s award is Robert F. Herrick, ScD, CIH.

Dr. Herrick is a senior lecturer on industrial hygiene in the Occupational Health Program at the T.H. Chan Harvard School of Public Health. Dr. Herrick has a 35-year history of service to ACGIH®. He became a member of ACGIH® in 1986 and joined the board of directors in the early 1990s; he served as its chair first in 1992 and again in 2013. Dr. Herrick also served as the U.S. delegate to the board of IOHA shortly after the organization was founded in 1987. He served on the IOHA board from 1991 to 1995 and was its president in 1996. He was certified in the comprehensive practice of industrial hygiene by AIBH in 1980. He has served in leadership roles on committees and panels for AIHA, the Environmental Protection Agency, and NIOSH, to name a few. Dr. Herrick has presented at approximately 100 international meetings and symposia. He is an author of more than 100 peer-reviewed scholarly articles in occupational and environmental hygiene and has authored or edited 10 books or book chapters. While serving as guest editor of the American Journal of Industrial Medicine, he made a strong contribution to the field, mentoring students and publishing other occupational and environmental health researchers. Dr. Herrick has authored 44 technical reports of studies and investigations in occupational and environmental settings. He has served on the editorial boards of numerous occupational hygiene and health journals, helping build the research and scientific bases for professional practice.

William Steiger Memorial Award
This award honors individuals from the social/political sphere whose efforts have contributed to advancements in occupational health and safety. This year’s recipient is Bennet I. Omalu, MD, MBA, MPH, CPE, DABP-AP, CP, FP, NP.

Dr. Omalu, a Nigerian-born physician, is a volunteer associate clinical professor at UC Davis in the Department of Pathology and Laboratory Medicine. Between 2002 and 2007, he discovered a disease, which he named chronic traumatic encephalopathy, in high-impact contact sports athletes when he performed autopsies and examined the brains of American football players and World Wrestling Entertainment wrestlers. His work facilitated the elucidation of modern-day concepts of traumatic brain injury—that repetitive and innocuous impacts to the head, with time, can result in permanent brain damage and dementia. In 2010, Dr. Omalu discovered CTE in war veterans when he performed autopsies and examined the brains of retired Iraqi war veterans who had suffered from post-traumatic stress disorder and committed suicide. He termed it the “Blast Variant of CTE.” In 2013, Dr. Omalu’s work was...
Named Awards and Recognition

**Herbert E. Stokinger Award**

This award is given each year to an individual who has made a significant contribution in the broad field of industrial and environmental toxicology. This year’s recipient is Mark D. Hoover, PhD, CHP, CIH, FAIHA.

Dr. Hoover is a senior research scientist in the Respiratory Health Division of NIOSH and currently serves as co-director of the Center for Direct Reading and Sensor Technologies and coordinator of the NIOSH Exposure Assessment Program. Dr. Hoover came to NIOSH in 2000, following 25 years of successful energy-related respiratory research at the Lovelace Respiratory Research Institute (formerly the Inhalation Toxicology Research Institute) within the federal government’s special purpose laboratory system. He is a certified health physicist and a certified industrial hygienist. Dr. Hoover’s substantial contributions over his 43-year career in the areas of inhalable materials and worker protection are documented in more than 240 open literature papers, chapters, and edited books, including the reference text on radioactive air sampling methods, and are further exemplified in national and international standards as well as in nearly 350 professional presentations and student mentorship.

**John J. Bloomfield Award**

This award is presented to a young industrial hygienist who pursues the problem of occupational health hazards primarily by conducting fieldwork and who demonstrates significant contribution to the profession. This year’s recipient is Carl E. Johnson, CIH, CSP.

Mr. Johnson earned his Bachelor of Science in environmental science and chemistry and his Master of Science in industrial hygiene from the University of Minnesota. He is a lean six sigma black belt and an industrial hygiene specialist for 3M. In this role, he works with 3M facilities, new acquisitions, product developers, and business leaders around the world to improve workplace and product health and safety. His primary research interests are in the areas of hearing conservation, industrial noise control, and chemical exposure assessment. Mr. Johnson’s field experience has taken him throughout North and South America, Europe, Asia, and Australia. Mr. Johnson is the past chair of the AIHA Noise Committee and an active member of both the AIHA Exposure Assessment Committee and the AIHA Student and Early Career Professionals Committee. He is an instructor for several AIHA PDCs and is a frequent guest lecturer at the University of Minnesota School of Public Health. Mr. Johnson was a keynote speaker at the 2017 International Health Forum and China-US Occupational Health Symposium in Beijing. He is a member of the team that won the 2016 NHCA/NIOSH Safe-in-Sound Excellence Award. Mr. Johnson serves on the Biomedical Medical Ethics Institutional Review Board at the University of Minnesota. He was inducted into the Delta Omega Honor Society for Public Health in 2017 and was selected for the AIHA Future Leaders Institute in 2011. He is a certified industrial hygienist and a certified safety professional.

**Robert T. Hughes Memorial Award**

Established in 2015, this award recognizes outstanding individuals in the field of industrial ventilation. This year’s recipient is Raymond (Ray) B. Hunter.

Mr. Hunter retired from Ray Hunter and Associates Inc. with more than 50 years of industrial ventilation experience. A native of West Virginia, Mr. Hunter attended the University of Louisville on a naval scholarship and graduated with a degree in mechanical engineering. Commissioned into the Navy, he served on the USS Cook, based in San Diego, California. After serving in the Navy, Mr. Hunter joined the American Air Filter Corporation. There, he was the manager of the Fabric Filter Products Group and opened the AAF branch office in Birmingham, Alabama, for all product lines throughout the southern region. When AAF began closing its branch offices, Mr. Hunter founded Ray Hunter and Associates Inc. as a manufacturer’s representative firm specializing in industrial air pollution control products and systems; he served there until his retirement. Mr. Hunter was an Instructor for the Connecticut Industrial Ventilation Conference, the Michigan State Industrial Ventilation Conference, and the North Carolina State Industrial Ventilation Conference. He founded and chaired the University of Alabama-Auburn University Industrial Ventilation Conference and the Las Vegas Industrial Ventilation Conference. Mr. Hunter has a legacy in the industrial ventilation community as a staunch supporter and promoter of the industrial ventilation guidelines and practices outlined by the ACGIH® “Industrial Ventilation Manual.” His clarity on applications insight and ethical practice has left an undeniable footprint in our industry.

**AIHA Volunteer Groups**

**Lila Albin Award**

Since 1997, the AIHA® Indoor Environmental Quality Committee has evaluated journal articles and recognized one each year. The article must (a) be peer reviewed and published in the Journal of Occupational and Environmental Hygiene, (b) provide practical information and expand the knowledge base of IEQ professionals, (c) address a critical IEQ issue, and (d) present the topic clearly and engagingly. In 2012, the award was renamed in honor of a former Chair of the IEQ Committee, the late Lila Albin, PhD.

This year’s recipients are Aleksandr B. Stefaniak, PhD, CIH, Ryan F. LeBouf, PhD, CIH, Jinghai Yi, Jason Ham, Timothy Nurkewicz, Diane E. Schwegler-Berry, Bean T. Chen, PhD, J. Raymond Wells, Matthew G. Dulling, Robert B. Lawrence, Stephen B. Martin Jr., PhD, PE, Allyson R. Johnson, and M. Abbas Virji, ScD, CIH for “Characterization of Chemical Contaminants Generated by a Desktop Fused Deposition Modeling 3-Dimensional Printer.”

**Rachel Carson Award**

The AIHA® Environmental Issues Committee bestows this highest honor to Gerald Markowitz, PhD, and David Rosner, MSPH, PhD in recognition of their environmental advocacy in the spirit of Rachel Carson. This award is bestowed on an environmental health and safety professional who has attained outstanding success and distinction in his or her environmental and industrial health and safety business, profession, or life’s work.
Named Awards and Recognition

**Rochelle Crew Memorial Award**
This award is given by the AIHA® Construction Committee to honor the memory of Rochelle Crew, a former member of the committee and long-time construction safety PDC instructor. The award is given to the best construction-related presentation at AIHce. The award is presented by the AIHA® Social Concerns Committee. Journalist Sara Mojtehedzadeh will discuss her expose on “North America’s Invisible Workers” on Monday, May 21, from 3:15 to 4:15 p.m.

**H. Kenneth Dillon Memorial Award**
This award is presented by the AIHA® Biosafety and Environmental Microbiology Committee to honor the memory of Dr. Ken Dillon, a former AIHA Fellow and the principal instructor for several years of the popular PDC “Prevention, Determination, and Remediation of Biological Contamination in Indoor Environments.” The award is given to the best student poster presented at AIHce on biosafety or microbiology. This year’s recipient will be recognized at Wednesday’s Mark of Excellence Breakfast.

**Donna Doganiero Award**
The AIHA® Safety Committee presents this award to the presenter of the best safety-related technical session at AIHce. The Safety Committee bestows this award in the name of Donna Doganiero, a truly outstanding individual, to recognize her achievements and vision in continuing to move the field of industrial safety and hygiene forward.

**The Golden Seed Award**
The AIHA® Students and Early Career Professionals Committee established this award in 2007. It is presented to an individual who has demonstrated a commitment to promoting industrial hygiene and/or provided guidance and mentoring to students or early career professionals. This award will be presented at the Mark of Excellence Breakast.

**Hazard Prevention and Engineering Controls Best Paper**
This award is given out by the AIHA® Hazard Prevention and Engineering Controls Committee to the best paper that focuses on the use of engineering principles for the prevention and control of health hazards. The awardee is selected by a committee of peers from papers published in The Journal of Occupational and Environmental Hygiene during the calendar year that precedes the conference. This year’s recipients are S. Williams Ischer, M.B., Farnell, G.T. Tabler, M. Moreira, P.T. O’Shaughnessy, PhD, CIH, and M.W. Nonnenmann, PhD, CIH for “Evaluation of a Sprinkler Cooling System on Inhalable Dust and Ammonia Concentrations in Broiler Chicken Production.”

**Margaret Samways Memorial Student Poster Award**
This award honors the memory of Margaret Samways, past chair and long-time member of the AIHA® Communication and Training Methods Committee. The award will be presented on Wednesday at the Mark of Excellence Breakfast with other best student poster recipients.

**David L. Swift Memorial Award**
This award honors the memory of Dr. David L. Swift, professor at the Johns Hopkins University, for his outstanding contributions to aerosol and industrial hygiene research. Aerosol research papers published during the previous year in the *Journal of Occupational and Environmental Hygiene* are reviewed by the AIHA® Aerosol Technology Committee. This year’s award is presented to Taekhee Lee, Larry Lee, Emanuele Cauda, Jon Hummer, and Martin Harper for their paper, “Respirable Size-Selective Sampler for End-of-Shift Quartz Measurement: Development and Performance.”

**Upton Sinclair Memorial Lecture Award**
The Upton Sinclair Memorial Lecture on EHS Investigative Reporting is hosted by the AIHA® Social Concerns Committee. Journalist Sara Mojtehedzadeh will discuss her expose on “North America’s Invisible Workers” on Monday, May 21, from 3:15 to 4:15 p.m.

**John M. White Award**
The John M. White Award was established by the AIHA® Respiratory Protection Committee to encourage scientific and application-oriented research in respiratory protection. This year’s award goes to Tyler M. Brady, Amanda L. Strauch, Claudia M. Almaguer, George Niez, Ronald E. Shaffer, Jr., PhD, Patrick L. Yorio, and Edward M. Fisher for “Transfer of Bacteriophage MS2 and Fluorescein From N95 Filtering Facepiece Respirators to Hands: Measuring Fomite Potential.”

**2017 AIHA® Bestseller**
This award is presented to the editor of the publication that sold the most copies during the year. The 2017 best-seller is presented to Daniel H. Anna, PhD, CIH, CSP, the editor of *The Occupational Environment: Its Evaluation, Control, and Management*, 3rd edition. In 2017, AIHA® sold 390 copies of this publication. This award will be presented at the Mark of Excellence Breakfast.

**2017 Critics’ Choice Award**
The Critics’ Choice Award honors a publication completed in 2017. The AIHA® Publications Committee evaluates all publications and selects those based on their impact on the profession, originality, and quality of writing. This year’s recipients are Erica J. Stewart, CIH, FAIHA, HEM and Roberta Smith, RN, MSPH, CIC, COHN-S, CIH, the editors of *Guidelines for the Selection and Use of Environmental Surface Disinfectants in Healthcare*. This award will be presented at the Mark of Excellence Breakfast.

**AIHA Local Section Awards**

**Michigan Industrial Hygiene Society Best Paper Award**
The Michigan Industrial Hygiene Society Best Paper Award was established by MIHS in 1957 for recognition of an outstanding publication in the American Industrial Hygiene Association Journal. In 1989, the MIHS board of directors voted to also recognize the authors of the best paper in applied industrial hygiene from the *Applied Occupational and Environmental Hygiene Journal*. Both journals combined in 2004 to form the current *Journal of Occupational and Environmental Hygiene*. MIHS continues to present a Best Paper Award each year. This year’s winners are Brian Rembialkowski, Margaret Sietsema, and Lisa Brosseau, ScD, CIH for their article, “Impact of Time and Assisted Donning on Respirator Fit,” *JOEH*, 14:9, 669–673.
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VISIT ALLIANT AT BOOTH #1330

ENDORSSED BY AIHA
Friday/Saturday At-a-Glance

As of April 4, 2018
* denotes a NEW PDC

Friday, May 18
3:00 p.m. – 4:00 p.m.
• Speaker Ready Room, Room 107AB
5:00 p.m. – 7:00 p.m.
• Registration, Arch Street Bridge

Saturday, May 19
7:00 a.m. – 7:30 a.m.
• PDC Monitor Meeting, Room 107AB
7:00 a.m. – 5:30 p.m.
• Registration, Arch Street Bridge
• Speaker Ready Room, Room 107AB
8:00 a.m. – 9:00 a.m.
• Trilateral Meeting (AIOH, BOHS, AIHA Leadership) (by invitation only), Marriott, Room 308

8:00 a.m. – Noon
• PDC 201: Smart Devices and the EHS Professional, Room 120B
• PDC 202: Managing Health Exposures in Confined Spaces, Room 108A
• PDC 203: A Sampling & Analysis Plan for Collecting Environmental Samples, Room 112AB
• PDC 204: Occupational Hazards and Illnesses Related to Skin and Nails, Room 118A
• PDC 205: Exposure Monitoring for VOCs, Utilizing Thermal Desorption Tubes, Both Passively and Actively, Room 103A

8:00 a.m. – 5:00 p.m.
• PDC 101: Electrical Safety I – Basic Principles & Engineering Controls, Room 103C
• PDC 102: Strengthening EHS Leadership & Teamwork, Room 104AB
• PDC 103: The Industrial Hygienist as Expert Witness, Room 113C
• PDC 104: The New AIHA Technical Guide for Wildfire Impact Investigations for the OEHS Professional, Room 120M
• PDC 105: Bayesian Statistics for Analyzing Occupational Exposure Data Using “R”, Room 110AB
• PDC 106: Understanding Leadership from the Masters, Room 117
• PDC 107: Noise Control Engineering — Proven and Effective Workplace Solutions, Room 119B
• PDC 108: Protective Clothing and Equipment for Emergency Preparedness and Response, Room 113A
• PDC 109: So, Now You are the Radiation Safety Officer! Now What?, Room 116
• PDC 110: Theory and Application of the 4 Gas/PID Sensor Technology, Room 105AB
• PDC 111: The Good, the Bad, & the Ugly — E&HS at the Worst Plant, Room 108B
• PDC 701: Process Safety and Risk Management for the Industrial Hygienist — Day 1, Room 120C
• PDC 702: Exposure Assessment Strategy & Statistics for Managing Occupational Exposures — Day 1, Room 121A
• PDC 703: Upstream Oil & Gas Exposures — A Complex Problem — Day 1, Room 121B
• PDC 704: Methods and Applications for Chemical Detection in Real Time — Day 1, Room 121C
• PDC 705: Communicating Risk Pathways — A Journey from EHS Hazards Identification to Enterprise Risk Management (ERM) — Day 1, Room 122A
• PDC 706: OHS Management System Auditor — Day 1, Room 122B

8:30 a.m. – 5:00 p.m.
• Analytical Accreditation Board Meeting, Marriott, Room 414

Noon – 1:00 p.m.
• PDC Lunches, Rooms 201ABC and 204ABC

1:00 p.m. – 5:00 p.m.
• PDC 301: Confined Spaces — The Good, the Bad, and the Ugly, Room 103A
• PDC 302: Comparative Ethics, Room 120B
• PDC 304: The Selection and Use of Environmental Surface Disinfectants in Healthcare, Room 108A
• PDC 305: Transforming Risk Decision-Making and Judgment Skills, Room 118C
• PDC 306: Creating and Implementing a Successful Job Hazard Analysis, Room 115C
• PDC 307: Strategic Partnerships to Reduce Worker Exposure Risks, Room 112AB

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Sunday At-a-Glance

As of April 4, 2018

Sunday, May 20

7:00 a.m. – 7:30 a.m.
- PDC Monitor Meeting, Room 107AB

7:00 a.m. – 5:30 p.m.
- Speaker Ready Room, Room 107AB

7:00 a.m. – 6:30 p.m.
- Registration, Arch Street Bridge

8:00 a.m. – Noon
- PDC 501: Flood Disaster Response and Resiliency, Room 108A
- PDC 503: Traditional and Novel Microbiological Methods for Indoor Microbial Investigations, Room 118C
- PDC 504: Nanotechnology — Old Theories and New Concepts, Room 119A
- PDC 505: Introduction To Toxicology for the IH Professional, Room 115C

8:00 a.m. – 4:00 p.m.
- ACGIH Board of Directors Meeting, Marriott, Rooms 305/306

8:00 a.m. – 5:00 p.m.
- AIHA Board of Directors Meeting, Marriott, Grand Ballroom A
- PDC 401: Ebola & Other Infectious Diseases of Public Health Significance for the IH, Room 113C
- PDC 402: Skin Exposure and Biological Monitoring of Chemicals, Room 105AB
- PDC 403: If I’m Teaching, Why Aren’t They Learning?!? Room 103A
- PDC 404: Utilizing Regulations and Consensus Standards to Ensure Safe Confined Space Entry, Room 111AB
- PDC 405: Welding: Identifying Exposures and Controls, Room 119A
- PDC 406: Environmental Law for Industrial Hygienists and Safety Professionals, Room 120A
- PDC 407: Exposure Judgment: Improving Inhalation Assessments, Room 117
- PDC 408: A Case-Based Introduction to Chemical Exposure Modeling, Room 104AB
- PDC 409: Leadership Principles for Occupational Health & Safety Professionals, Room 120B
- PDC 410: Advanced Concepts in Noise Control and Hearing Conservation, Room 119B
- PDC 411: Exposure Reconstruction and Epidemiology — How to Benefit Future Epidemiology Studies, Room 113A
- PDC 412: The Fundamentals of an Effective Respiratory Protection Program, Room 112AB
- PDC 413: Choosing the Correct Radiation Detection Instrument for Your Needs, Room 109AB
- PDC 415: Practical Application of Whole Air Sampling, Room 108B
- PDC 701: Process Safety and Risk Management for the Industrial Hygienist — Day 2, Room 120C
- PDC 702: Exposure Assessment Strategy & Statistics for Managing Occupational Exposures — Day 2, Room 121A
- PDC 703: Upstream Oil & Gas Exposures — A Complex Problem — Day 2, Room 121B
- PDC 704: Methods and Applications for Chemical Detection in Real Time - Day 2, Room 121C
- PDC 705: Communicating Risk Pathways — A Journey from EHS Hazards Identification to Enterprise Risk Management (ERM) — Day 2, Room 122A
- PDC 706: OHS Management System Auditor — Day 2, Room 122B

Noon – 1:00 p.m.
- PDC Lunches, Rooms 201ABC and 204ABC
- Teen Workplace Safety Task Force, Marriott, Room 307

1:00 p.m. – 5:00 p.m.
- SDS & Label Authoring Registry Exam, Marriott, Room 301
- PDC 601: OSHA Global Standards for Children, Slaves, Migrants, and other Underrepresented Workers, Room 109A
- PDC 602: From Disaster to Recovery — How VOCs Can Ruin Your Day, Room 116
- PDC 603: How to Assess and Manage Nanomaterial Risks, Room 118C
- PDC 604: The Art and Science of Analyzing Risk — What a Practicing IH Needs to Understand, Room 115C
- PDC 605: Toxicology of Particulate Matter, Room 110A

5:15 p.m. – 6:30 p.m.
- Meetup Merry-Go-Round, Grand Hall

5:30 p.m. – 7:00 p.m.
- ACGIH Membership Reception and Annual Meeting of the Membership, Marriott, Grand Ballroom D

6:30 p.m. – 8:00 p.m.
- American Industrial Hygiene Foundation Reception (by invitation only), Del Frisco’s Double Eagle Steak House; 1426-28 Chestnut Street; Philadelphia, PA 19102

7:00 p.m. – 8:00 p.m.
- Nanotechnology Working Group, Marriott, Room 411/412
- Toxicology Committee, Marriott, Room 407

7:00 p.m. – 9:00 p.m.
- Academic Accreditation Committee, Marriott, Room 402/403
- Computer Applications Committee, Marriott, Room 408/409
- Healthcare Working Group, Marriott, Room 414/415
- ISS Annual Forum, TBD
- Mentoring and Professional Development Committee, Marriott, Room 405

7:30 p.m. – 9:30 p.m.
- Biological Monitoring Committee, Marriott, Room 406
- Ionizing Radiation Committee, Marriott, Room 410

8:00 p.m. – 9:30 p.m.
- Future Leaders Institute (FLI) Reception (by invitation only), McGillin’s Olde Ale House; 1310 Drury Street; Philadelphia, PA 19107

8:00 p.m. – 10:00 p.m.
- Late Night Learning: The Silent Tsunami: Understanding Mental Health and Psychosocial Disorders in the Workplace, Marriott, Rooms 302/303
Monday, May 21
6:30 a.m. – 7:30 a.m.
• AIHA Volunteer Groups State of Affairs Breakfast, Marriott, Liberty Ballroom
• First Timers’ Orientation Meet and Greet, sponsored by DuPont, Marriott, Grand Ballroom H
7:00 a.m. – 5:30 p.m.
• Registration, Arch Street Bridge

8:00 a.m. – 9:30 a.m.
Opening Session
Three Megatrends and Four Best Practices That Will Shape Your Business Future

Rich Karlgaard
Ballroom A/B

8:00 a.m. – 4:00 p.m.
• Speaker Ready Room, Room 107

9:00 a.m. – 4:00 p.m.
CareerAdvantage Development Fair Open, The Hub, Hall B
• Online Job and Resume Postings all day
• Resume Critiquing – 9:00 a.m. – 11:00 a.m.
• On-Site Interviews – 9:00 a.m. – Noon
• What is a Resume vs. Curriculum Vitae – 11:00 a.m. – Noon
• Resume Critiquing – 1:00 p.m. – 2:30 p.m.
• On-Site Interviews – 1:00 p.m. – 3:00 p.m.
• Onboarding a New Industrial Hygienist – The Good, The Bad, and The Better – 2:30 p.m. – 3:30 p.m.

9:00 a.m. – 5:30 p.m.
Exhibit Hall Open, Hall A4
Passport to Prizes, Expo Learning Pavilions, Special Displays, Concessions, AIHA Booth

9:30 a.m. – 9:55 a.m.
• Earl Dotter Photo Exhibit, Education in the Learning Zone, The Hub, Hall B
• Chair Yoga, Health and Wellness in the Learning Zone, The Hub, Hall B

10:00 a.m. – 11:00 a.m.
• A1: New Multi-phase Sampler for Inhalable Fraction Vapor (IFV) Compounds, Room 112
• A2: Perspectives on Preparation for the CIH Exam v13.0, Room 113
• A3: Exploring Serious Injuries & Fatalities for Positive Change, Room 117
• A4: Research on Welding Fume Emission and Engineering Control, Room 103
• A5: Controlling the Hazards: Parts, Sparks, and Strokes, Room 115BC
• A6: Managing Occupational Exposures to Infectious Agents, Room 108A
• A7: Breaking Through the Risk Management Compliance Paradox, Room 108B
• A8: Response Efforts to Confirmed Legionnaires’ Disease in Assisted Living Facilities, Room 117
• A9: Corporate EH&S Software Applications: From Selection to Rollout, Room 111
• A10: New AIHA Technical Guide for Wildfire Impact Investigations for the OEHS Professional, Part 1, Room 116
• A11: An Introduction to the Revised Strain Index, Room 104
• A12: Skin Matters: Absorption, Sensitization, and Transfer Efficiencies, Room 113A
• A13: Improving the Indoor Environment: Case Studies in Office and School Settings, Room 105
• A14: Bayesian Professional Judgment Users Group, Part 1, Room 109
• A15: Ask the Expert: Opening Keynote Speaker, Room 119

10:00 a.m. – 12:00 p.m.
• Local Section President/President-Elect Training, Education in the Learning Zone, The Hub, Hall B
• The Foundation of Power & Engagement, Health and Wellness in the Learning Zone, The Hub, Hall B

10:00 a.m. – 10:25 a.m.
• Why You Should Become a Mentor, Education in the Learning Zone, The Hub, Hall B
• Healthy Eating: Food as Medicine, Health and Wellness in the Learning Zone, The Hub, Hall B

10:30 a.m. – 12:00 p.m.
• FOHS Board of Trustees Meeting (by invitation only), Marriott, Room 304

11:15 a.m. – 12:15 p.m.
• B1: Not All Gloves Are Created Equal: Guidelines and Tools for Selecting Chemical-Resistant Products, Room 113BC
• B2: Occupational Safety and IH in China, Hong Kong, and Southeast Asia, Room 116
• B3: Air Dispersion Modeling for IHs: Should You Be Using Models?, Room 111
• B4: Topics in Healthcare Exposures: Needles and Hazardous Drugs, Room 118
• B5: OSHA Under Trump: A Status Report and Strategy for Moving Forward, Room 103
• B6: Mold Analysis Data Are Not Created Equal: Standard Methods Can Help, Room 108B
• B7: Asbestos Mysteries and Discoveries: Hunting for the Mode of Action, Room 104
• B8: New Risk-Based Model for Preventing Fatalities and Serious Injuries, Room 108A
• B9: Radiation Case Studies: Project Management Challenges, Room 112
• B11: Topics in Controls: Heat Stress, PCBs, and Diesel Particles, Room 105
• B12: Weld Fume Safety: Engineering Controls vs. Personal Protection, Room 115BC
• B13: ABIH Forum, Room 109
• B14: Bayesian Professional Judgment Users Group, Part 2, Room 113A
• B15: Derek Dunn Invited Noise Lecture: Bang! Damage from Impulse Noise and the Effectiveness of Hearing Protection, Room 119
• Poster Session 1 Author Attend Time, Professional Posters Zone, The Hub, Exhibit Hall B

12:30 p.m. – 1:30 p.m.
• IOHA 2018 ISC Luncheon (by invitation only), Marriott, Room 307
• Students and Early Career Professionals Table Talks, Table Topics Zone, The Hub, Exhibit Hall B

2:00 p.m. – 2:25 p.m.
• Local Section Secretary Training, Education in the Learning Zone, The Hub, Hall B
• A New Relationship with Your Breath to Release Stress and Tension, Health and Wellness in the Learning Zone, The Hub, Hall B

2:30 p.m. – 2:55 p.m.
• Connecting Campuses, Education in the Learning Zone, The Hub, Hall B

Healthy Eating: A Seasonal Diet Plan, Health and Wellness in the Learning Zone, The Hub, Hall B
2:00 p.m. – 3:00 p.m.
- C1: Highly Infectious Diseases of IH and Public Health Significance, Room 119
- C2: Talc the Mineral & Potential Carcinogen, Room 108B
- C3: Assessment and Control of Hazards in the Construction Industry, Room 115BC
- C4: Becoming a Midcareer Professional: From IH Technical Geek to EHS Manager, Room 111
- C5: Electric Arc Protection: Current Standardization in IEEE, IEC, and ASTM, Room 117
- C6: Risk Governance: Museum Collections and Cultural Heritage Artifacts, Room 112
- C7: Dust Explosions: The Problem, Control Measures, and the New NFPA 652, Room 118
- C8: Topics in Noise: Ear Plugs & Fit-testing, Room 113BC
- C9: Pre-Incident Planning: The Most Important Step in HAZMAT Preparedness, Room 105
- C10: Nanotechnology: Updates and Challenges for the Future, Part 1, Room 108A
- C11: Ergonomics Strategies to Address the Changing Worker and Workplace, Room 109
- C12: Risk Perception in Academic Labs, Room 104
- C13: IEO Considerations Across a Variety of Work and Living Spaces, Room 116
- C14: How Can We Make Improved Risk Management Decisions With Occupational Exposure Banding and Checklist Tools? Part 1, Room 103
- C15: Emerging Issues in Beryllium Regulation, Part 1, Room 113A

2:00 p.m. – 4:00 p.m.
- AIHA Finance Committee, Marriott, Grand Ballroom K
- Cannabis Industry Health and Safety Task Force Meeting, Marriott, Grand Ballroom J

3:00 p.m. – 3:25 p.m.
- Local Section Treasurer Training, Education in the Learning Zone, The Hub, Hall B
- Exercise your Mind: The Benefits of Meditation, Health and Wellness in the Learning Zone, The Hub, Hall B

3:15 p.m. – 4:15 p.m.
- D1: Aerosols in Different Environments: Workplace Dust Fractions, Bioaerosol Sampling, and Theatrical Fog Use, Room 118
- D2: Rondo alla Turca: Dealing with Cappadocia Eronite, Room 104
- D3: The Academic Climate: Industrial Hygiene and Related Programs, Room 113A
- D4: Emerging Issues in IH: Electronics Recycling, Nail Technician Intervention, and Odor Evaluation, Room 108B
- D5: Keeping Up with Recent Changes to OSHA’s Recordkeeping Rule, Room 115BC
- D6: Come Watch a Speaker’s Epic Failure (So You Don’t Experience One!), Room 112
- D7: Current Challenges in Sampling & Analysis: Rules, Strategies, and Devices, Room 113BC
- D8: Transforming Risk Culture with Intention and Leadership, Room 111
- D9: Household Exposure: Correlating Cumulative Exposure with Lung Digestion Analyses, Room 117
- D10: Nanotechnology: Updates and Challenges for the Future, Part 2, Room 108A
- D11: How a Laboratory Fire Death Lead to a New Safety Initiative, Room 116
- D12: Exposure Implications of Electronic Cigarette Surface Contamination, Room 105
- D13: Upton Sinclair Lecture: North America’s Invisible Workers, Room 119
- D14: How Can We Make Improved Risk Management Decisions With Occupational Exposure Banding and Checklist Tools? Part 2, Room 103
- D15: Emerging Issues in Beryllium Regulation, Part 2, Room 109
- Student Poster Session Author Attend Time, Student Posters Zone, The Hub, Exhibit Hall B

3:30 p.m. – 3:55 p.m.
- Content Portfolio Advisory Group (CPAG) Update, Education in the Learning Zone, The Hub, Hall B
- Ask the Expert: Tone and Strengthen, Health and Wellness in the Learning Zone, The Hub, Hall B

4:30 p.m. – 5:30 p.m.
- Continuing Education Committee (CEC) Meeting, Marriott, Room 306
- Content Portfolio Advisory Group Meeting (by invitation only), Marriott, Room 305
- Estate Planning/Planned Giving (by invitation only), Marriott, Room 406
- Legal Issues Committee, Marriott, Room 307
- Social Concerns Committee, Marriott, Room 402/403

5:00 p.m. – 6:30 p.m.
- Content Portfolio Advisory Group Meeting (by invitation only), Marriott, Room 305
- Estate Planning/Planned Giving (by invitation only), Room 204A
- Legal Issues Committee, Marriott, Room 307
- Social Concerns Committee, Marriott, Room 402/403

5:30 p.m. – 7:30 p.m.
- Exposure Assessment Strategies Committee, Marriott, Grand Ballroom A
- Hazard Prevention and Engineering Controls Committee, Marriott, Room 411/412
- Leadership and Management Committee, Marriott, Room 408/409
- SiteHawk Private Event (by invitation only), Marriott Independence Ballroom
- Lab Safety Roundtable & Reception – Hosted by DuPont, Marriott, Room 405
- Ergonomics Committee, Marriott, Room 418
- Exposure and Control Banding Committee, Marriott, Room 414/415
- Harvard Alumni Reception, Marriott, Room 406
- Noise Committee, Marriott, Grand Ballroom C
- Respiratory Protection Committee, Marriott, Grand Ballroom D
- Students and Early Career Professionals Committee, Marriott, Grand Ballroom B
- University of Minnesota SPH Alumni & Friends Gathering, City Tap House Logan Square; 2 Logan Square; Philadelphia, PA 19103

6:00 p.m. – 9:30 p.m.
- Department of Energy (DOE) and DOE Contractor Industrial Hygiene Meeting, Marriott, Liberty Ballroom AB
- Johns Hopkins Reception, Marriott, Liberty Ballroom C
- Construction Committee, Marriott, Grand Ballroom J
- EASC Modeling Subcommittee, Marriott, Grand Ballroom L
- Occupational and Environmental Epidemiology Committee, Marriott, Room 306

7:30 p.m. – 9:30 p.m.
- Protective Clothing and Equipment Committee, Marriott, Room 309

8:00 p.m. – 10:00 p.m.
- Late Night Learning: Safety and Industrial Hygiene Efforts in Response to Recent Disasters, Marriott, Room 302/303
Monday, May 20
Education Sessions

Opening General Session

Three Megatrends and Four Best Practices That Will Shape Your Business Future
8:00 a.m. - 9:30 a.m., Ballroom AB
Presenter: Rich Karlgaard

Entrepreneur-turned-Forbes magazine editor-at-large, columnist, author, television commentator, private investor, and board director, Rich Karlgaard is a respected forecaster who offers a unique vantage point on the trends driving the business and economic climates. Predicting the future is easy... getting it right is the hard part. A common mistake among business, investment and government leaders is to overestimate change in the short run (less than two years), but badly underestimate it in the long run (five years or more). Forbes publisher and global futurist, Rich Karlgaard, cuts through the clutter. He forecasts the business and technology world as it is likely to unfold over the next two, five, and ten years. Karlgaard is uniquely positioned at the intersection of business, economic, innovation, and technological trends. As such, he is able to see, weigh, and articulate the variables that will shape the future. Rich will kick off AIHce EXP 2018.

Morning Sessions in The Hub
Hall B
9:30 a.m. – 9:55 a.m.
• Earl Dotter Photo Exhibit, Education in the Learning Zone
• Chair Yoga Session 1, Health and Wellness in the Learning Zone
• Cooking Demonstration: Overnight Oats, Center column

10:00 a.m. – 10:25 a.m.
• Local Section President/President-Elect Training, Education in the Learning Zone
• The Foundation of Power & Engagement, Health and Wellness in the Learning Zone
• Cooking Demonstration: Breakfast Egg Salad Wrap, Center column

10:30 a.m. – 10:55 a.m.
• Why You Should Become a Mentor, Education in the Learning Zone
• Healthy Eating: Food as Medicine, Health and Wellness in the Learning Zone
• Cooking Demonstration: Green Magic Smoothie, Center column

11:00 a.m. – 12:00 p.m.
• What is a Résumé vs. Curriculum Vitae (CV)?, CareerAdvantage

A1: New Multi-phase Sampler for Inhalable Fraction Vapor (IFV) Compounds
10:00 a.m. - 11:00 a.m. Room 112
Moderator: Darrah Sleeth, University of Utah Salt Lake City. Presenters: Linda Coyne, SKC Inc.; Michael Murphy, 3M; Patrick O’Shaughnessy, University of Iowa.

A2: Perspectives on Preparation for the CIH Exam v13.0
10:00 a.m. - 11:00 a.m. Room 113
Moderator: Carter Ficklen, Mission Technologies, Inc. Presenters: Christopher Shaw, Apex Companies, LLC; Amber Fitzgerald, Raytheon; Rachel Zisook, Cardno.

A3: Exploring Serious Injuries & Fatalities for Positive Change
10:00 a.m. - 11:00 a.m. Room 118
Presenter: Jill James, Vivid Learning Systems.

A4: Research on Welding Fume Emission and Engineering Control
10:00 a.m. - 11:00 a.m. Room 103
Moderator: Evan Floyd, University of Oklahoma. Presenters: Jun Wang, Marcio Bezerra, University of Oklahoma; Jhy-Charm Soo, NIOSH.

Full session descriptions may be found in the mobile app. Events take place at the Pennsylvania Convention Center unless otherwise noted.
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Presenter/Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:30 a.m.</td>
<td>Exhibitor Product Demos and Presentations</td>
<td>9:30 a.m. – 2:00 p.m., Expo Learning Pavilions 1 &amp; 2, Hall A</td>
<td></td>
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<tr>
<td>9:35 a.m.</td>
<td><strong>How to Reduce Risk Exposure With Digital EHS Programs</strong></td>
<td>Learning Pavilion 1 (behind the AIHA Booth)</td>
<td>Pulpstream - Join Pankaj Malviya, Founder and CEO of Pulstream, for a demonstration of how billion-dollar companies across industries are making workplaces safer with digital EHS programs. Learn how a cloud-based software platform delivers powerful process-control applications. Discover how digital process automations empower occupational health and industrial hygiene teams to identify, analyze, and mitigate risks more efficiently.</td>
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<tr>
<td>11:15 a.m.</td>
<td><strong>Solving Air Quality Issues by Identifying “Unknown” Toxic Gases in Emergency Response and Workplace IH Monitoring Applications</strong></td>
<td>Learning Pavilion 2 (Aisle 2000)</td>
<td>Gasmet Technologies - The Model DX4040 portable FTIR gas analyzer can identify “unknown” gases within minutes of arriving at site, by searching the NIST/EPA© reference library of over 5,000 gases. Measuring 25 gases simultaneously at sub-ppm levels, the DX4040 is also a cost-effective solution for performing workplace exposure assessments.</td>
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<tr>
<td>12:15 p.m.</td>
<td><strong>Nanoparticle Detection in Workplace Environments</strong></td>
<td>CH Technologies (USA), Inc.</td>
<td>Nanoparticle Partector is a compact, lightweight nanoparticle detector using noncontact electrical detection to compute Lung Deposited Surface Area (LDSA) of inhalable workplace air. Overexposure to particles with increased LDSA is associated with adverse respiratory health effects. Partector is an effective way to detect increased exposure to nanoparticles in the occupational setting.</td>
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<td>12:50 p.m.</td>
<td><strong>Artificial Intelligence Diagnosis</strong></td>
<td>xRapid Environment</td>
<td>Artificial Intelligence Diagnosis - Using a fully automated microscope and artificial intelligence to diagnose asbestos and mold slides, our elegant platform can read prepared slides with just the touch of a button. Your complete report and photo backup are ready to read or email in just minutes. We can seamlessly integrate into your LIM system for billing, reports, and records.</td>
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<td>1:25 p.m.</td>
<td><strong>Intelligent Respirator Fit Test Solutions: Finding Efficiency Beyond the Fit Test</strong></td>
<td>TSI Incorporated</td>
<td>Intelligent Respirator Fit Test Solutions: Finding Efficiency Beyond the Fit Test - As Respiratory Protection Program Administrators know, fit testing involves more than the fit test itself. Staff training, mask selection/sizing, and record keeping are all tasks that need to be accomplished in addition to the fit test. The new PortaCount® Respirator Fit Tester leads you through the entire process, helping achieve a better fit and a more efficient program.</td>
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<tr>
<td>1:25 p.m.</td>
<td><strong>How Smart Companies Build World-Class Ergonomics Processes</strong></td>
<td>Humantech</td>
<td>How Smart Companies Build World-Class Ergonomics Processes - Humantech’s software as a service (SaaS) applications, The Humantech System® and Ergopoint® are used by some of the world’s largest companies to manage workplace ergonomics. They are built on three key components: (1) LEARN: Users build knowledge quickly with interactive online training modules; (2) DO: Assessment tools enable users to identify and fix problem jobs; and (3) MANAGE: Process owners can monitor the progress and activities of their team.</td>
</tr>
<tr>
<td>1:25 p.m.</td>
<td><strong>On Site: Safe Site</strong></td>
<td>Edge Eyewear</td>
<td>On Site: Safe Site - This course will equip attendees with increased knowledge and understanding in the following areas: reasons to use safety eyewear, meeting the safety standard, meeting testing requirements, and understanding enforcement. This course will provide the tools for safety professionals to make informed decisions as they work to decrease company liability and protect the eyes of employees. There are no prerequisites for this course, simply a desire to become educated and informed about safety eyewear and the standards enforced by the industry.</td>
</tr>
</tbody>
</table>
A5: Controlling the Hazards: Parts, Sparks, and Strokes  
10:00 a.m. - 11:00 a.m.  Room 115BC  
Moderator: Don Wolski, The Boeing Company.  
10:00 a.m. - 10:20 a.m.  
Challenges in 3D Printing Installation and Use  
Angelica Torres, Northrop Grumman.  
10:20 a.m. - 10:40 a.m.  
Static Electricity: An Overlooked Hazard During Flammable Liquid Transfers  
Bart Dawson, Shell Chemical LP.  
10:40 a.m. - 11:00 a.m.  
Effectiveness of a Supplemental Ventilation System for Removing Disinfectant By-products  
Gerry Croteau, University of Washington.  

A6: Managing Occupational Exposures to Infectious Agents  
10:00 a.m. - 11:00 a.m.  Room 108A  
Moderator: Linh Phan, University of Illinois at Chicago.  
Presenters: Karen Michael, Veritox, Inc.; Rachael Jones, University of Illinois at Chicago.  

A7: Breaking Through the Risk Management Compliance Paradox  
10:00 a.m. - 11:00 a.m.  Room 108B  
Moderator: Scott Dotson, Cardno.  
Presenter: Charles Redinger, Redinger 360, Inc.  

A8: Response Efforts to Confirmed Legionnaires’ Disease in Assisted Living Facilities  
10:00 a.m. - 11:00 a.m.  Room 117  
Moderator: Amanda McKenney, Terracon Consultants, Inc.  
Presenters: Scott Rohlf, Michael Chandall, Terracon Consultants, Inc.  

A9: Corporate EH&S Software Applications: From Selection to Rollout  
10:00 a.m. - 11:00 a.m.  Room 111  
Moderator: Alexander Mapel, Marathon Petroleum Company, L.P.  
Presenters: Ronald Petti, Verdant Web Technologies Inc.; Amanda Styes, Marathon Petroleum Company, L.P.  

10:00 a.m. - 11:00 a.m.  Room 116  

A11: An Introduction to the Revised Strain Index  
10:00 a.m. - 11:00 a.m.  Room 104  
Moderator & Presenter: Gary Downey, The Ergonomics Center.  

A12: Skin Matters: Absorption, Sensitization, and Transfer Efficiencies  
10:00 a.m. - 11:00 a.m.  Room 113A  
Moderator: Patrick Klun 3M Company.  
Presenters: Shane Que Hee, University of California at Los Angeles; Travis Cook, Gradient; Jennifer Sahmel, Insight Exposure and Risk Sciences, Inc.  

A13: Improving the Indoor Environment: Case Studies in Office and School Settings  
10:00 a.m. - 11:00 a.m.  Room 105  
10:00 a.m. - 10:20 a.m.  
Lessons Learned from the ASHRAE Headquarters Renovation  
Joe Pessa, Dynamic Air Quality Solutions.  
10:20 a.m. - 10:40 a.m.  
What’s that Smell? Effectively Responding to Office IAQ Complaints  
Craig Maunder, ECOH.  
10:40 a.m. - 11:00 a.m.  
Control of Humidity-Related Mold  
Ed Light, Building Dynamics, LLC.  

A14: Bayesian Professional Judgment Users Group, Part 1  
10:00 a.m. - 11:00 a.m.  Room 109  
Presenters: Paul Hewett, Exposure Assessment Solutions, Inc.; Perry Logan, 3M.  

A15: Ask the Expert: Opening Keynote Speaker  
10:00 a.m. - 11:00 a.m.  Room 119  
Moderator: Dirk Yamamoto  
Presenter: Rich Karlgaard  

B1: Not All Gloves are Created Equal: Guidelines and Tools for Selecting Chemical-Resistant Products  
11:15 a.m. - 12:15 p.m.  Room 113BC  
Moderator: Cheryl DuBois, 3M.  
Presenters: Robert Phalen, University of Houston-Clear Lake; Norman Henry, Safety and Health By Protection; Matthew Nolen, Aerojet.  

B2: Occupational Safety and IH in China, Hong Kong, and Southeast Asia  
11:15 a.m. - 12:15 p.m.  Room 116  
Moderator: Thomas Fuller, Illinois State University.  
Presenters: Samuel Yu, Hong Kong University of Science and Technology; Laurence Svirchev, Svirchev OHS Management Systems.  

B3: Air Dispersion Modeling for IHs: Should You Be Using Models?  
11:15 a.m. - 12:15 p.m.  Room 111  
Moderator: James Rasmussen, Chemistry & Industrial Hygiene, Inc.  
Presenters: Robert Strode, Daniel Hall, Cassidy Strode, Chemistry & Industrial Hygiene, Inc.  

B4: Topics in Healthcare Exposures: Needles and Hazardous Drugs  
11:15 a.m. - 12:15 p.m.  Room 118  
Moderator: Vanda Puhalovich, Kaiser Permanente.  
11:15 a.m. - 11:35 a.m.  
Needlestick Injuries: Case Studies in Different Occupational Settings  
11:35 a.m. - 11:55 a.m.  
Assessment of Hazardous Drug Exposure at Army Medical Facilities  
11:55 a.m. - 12:15 p.m.  
Assessing Healthcare Workers’ Exposure to Antineoplastic Drugs  
Chun-Yip Hon, Ryerson University.  

11:15 a.m. - 12:15 p.m.  Room 103  
Moderator: Scott Schneider, Retired.  
Presenters: Jordan Barab, OSHA; Peg Seminario, AFL-CIO; Mark Ames, AIHA.  

B6: Mold Analysis Data Are Not Created Equal: Standard Methods Can Help  
11:15 a.m. - 12:15 p.m.  Room 108B  
Moderator: Michael Brisson, Savannah River National Laboratory.  
Presenters: Lisa Rogers, Mycometer, Inc.; Michael Breu, Fiberguard, Inc.
Monday, May 21  Education Sessions

B7: Asbestos Mysteries and Discoveries: Hunting for the Mode of Action 11:15 a.m. - 12:15 p.m.  Room 104
Moderator: Eric Rasmuson, Chemistry & Industrial Hygiene, Inc.  Presenters: Jean Pfau, Montana State University; Andrey Korchevskiy, Chemistry & Industrial Hygiene, Inc.

B8: New Risk-Based Model for Preventing Fatalities and Serious Injuries 11:15 a.m. - 12:15 p.m.  Room 108A
Moderator: Linda Haney, ORCHSE Strategies, LLC.  Presenters: Delight Woodhull, Stephen Newell, ORCHSE Strategies, LLC.

B9: Radiation Case Studies: Project Management Challenges 11:15 a.m. - 12:15 p.m.  Room 112
Moderator: Judson Kenoyer, NV5/Dade Moeller Training Academy.  11:15 a.m. - 11:45 a.m.  Managing Radioactive and Mixed Waste at Woods Hole Oceanographic Institution
Ronald Reif, Woods Hole Oceanographic Institution.
11:45 a.m. - 12:15 p.m.  Radon Mitigation in a Turn-of-the-Century Mansion House
Craig Maunder, ECOH.

B10: New AIHA Technical Guide for Wildfire Impact Investigations for the OEHS Professional, Part 2 11:15 a.m. - 12:15 p.m.  Room 117

B11: Topics in Controls: Heat Stress, PCBs, and Diesel Particles 11:15 a.m. - 12:15 a.m.  Room 105
Moderator: Steve Gyan, Gold Fields Ghana.  11:15 a.m. - 11:35 a.m.  *WITHDRAWN* One Company’s Implementation of an Indoor Heat Stress Program
Christina Juarez, Pacific Gas and Electric.  11:35 a.m. - 11:55 a.m.  Occupational Exposures in Printed Circuit Board (PCB) Manufacturing
Yu-Wen Lin, Fu Jen Catholic University, Taiwan.

11:55 a.m. - 12:15 p.m.  Reducing Personal Exposure to Diesel Particulate Matter
Andy McCarthy, GHD Enfield, 5085, Australia.

B12: Weld Fume Safety: Engineering Controls vs. Personal Protection 11:15 a.m. - 12:15 p.m.  Room 115BC

B13: AIH Forum 11:15 a.m. - 12:15 p.m.  Room 109
Presenters: Ulric Chung, AIH; Jeffrey Miller, Oak Ridge Associated Universities.

B14: Bayesian Professional Judgment Users Group, Part 2 11:15 a.m. - 12:15 p.m.  Room 113A
Presenters: Paul Hewett, Exposure Assessment Solutions, Inc.; Perry Logan, 3M.

B15: Derek Dunn Invited Noise Lecture: Bang! Damage from Impulse Noise and the Effectiveness of Hearing Protection 11:15 a.m. - 12:15 p.m.  Room 119
Moderator: Angel Plaza, NASA.  Presenter: Elliott Berger, 3M.

Posters

Poster Session 1
Author Attend Time 11:15 a.m. - 12:15 p.m.  Professional Posters Zone, The Hub, Exhibit Hall B
Topics: Aerosols, Construction, Indoor Environmental Quality/Indoor Air Quality
See page 48 for posters on this topic. For a full list of co-authors and detailed abstracts, see the AIHce 2018 website.

Expo Hall Activities
12:00 p.m. – 2:00 p.m.
Hall A at the columns in the 1300 and 1700 aisles and in the AIHA Booth 1039
Afternoon Healthy Break – Healthy snacks will help boost your energy for more education, networking, and the evening’s events!

Students and Early Career Professional Table Topics
12:30 p.m. - 1:30 p.m.
Table Topics Zone, The Hub, Hall B

C1: Highly Infectious Diseases of IH and Public Health Significance 2:00 p.m. - 3:00 p.m.  Room 119

C2: Talc the Mineral & Potential Carcinogen 2:00 p.m. - 3:00 p.m.  Room 108B
Moderator & Presenter: Sean Fitzgerald, Scientific Analytical Institute.

C3: Assessment and Control of Hazards in the Construction Industry 2:00 p.m. - 3:00 p.m.  Room 115BC
Moderator: Charles Cashio, S&ME, Inc.  2:00 p.m. - 2:20 p.m.  Worksite Emissions from a Cured-in-Place Pipe (CIPP) Installation Process
Andrew Whelton, Purdue University.  2:20 p.m. - 2:40 p.m.  Creation of an Online Network to Advance Safety and Health in Construction
Jessica Bunting, CPWR - The Center for Construction Research and Training.  2:40 p.m. - 3:00 p.m.  The CPWR Exposure Control Database for the Construction Industry
Sara Brooks, CPWR - The Center for Construction Research and Training.

C4: Becoming a Midcareer Professional: From IH Technical Geek to EHS Manager 2:00 p.m. - 3:00 p.m.  Room 111

C5: Electric Arc Protection: Current Standardization in IEEE, IEC, and ASTM 2:00 p.m. - 3:00 p.m.  Room 117
Moderator & Presenter: Gavin Burdge, Safety and Industrial Hygiene Freelance Writer.  Presenter: Mikhail Golovkov, Arc-Flash-CRT.

C6: Risk Governance: Museum Collections and Cultural Heritage Artifacts 2:00 p.m. - 3:00 p.m.  Room 112

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C7: Dust Explosions: The Problem, Control Measures, and the New NFPA 652
2:00 p.m. - 3:00 p.m. Room 118
Moderator & Presenter: John Wincek, DEKRA Process Safety.

C8: Topics in Noise: Ear Plugs & Fitting
2:00 p.m. - 3:00 p.m. Room 113BC
Moderator: Bill Whelan, Los Alamos National Laboratory.
2:00 p.m. - 2:20 p.m. Is Earplug Fit-test Training More Effective Than Individual Earplug Fitting Instruction?
Mingyu Wu, Grand Valley State University.
2:20 p.m. - 2:40 p.m. One Refinery’s Experience With Custom Fitted Ear Plugs
Joe Tudor, Shell Health.
2:40 p.m. - 3:00 p.m. Hearing Protector Attenuation Among Metal Manufacturing Workers
Stephanie Sayler, University of Michigan.

C9: Pre-Incident Planning: The Most Important Step in HAZMAT Preparedness
2:00 p.m. - 3:00 p.m. Room 105
Moderator: Edward Primeau, USCG Atlantic Strike Team. Presenter: Robert Campbell, Alliance Solutions Group, Inc.

C10: Nanotechnology: Updates and Challenges for the Future, Part 1
2:00 p.m. - 3:00 p.m. Room 108A

C11: Ergonomics Strategies to Address the Changing Worker and Workplace
2:00 p.m. - 3:00 p.m. Room 109

C12: Risk Perception in Academic Labs
2:00 p.m. - 3:00 p.m. Room 104
Moderator: Patty Olinger, Emory University. Presenter: Imke Schroeder, UC Center for Laboratory Safety.

C13: IEQ Considerations Across a Variety of Work and Living Spaces
2:00 p.m. - 3:00 p.m. Room 116
Moderator: Andreas Wagner, Golder Associates Inc.
2:00 p.m. - 2:20 p.m. Facilities with Subsurface Contamination, What May Your Workers Be Breathing?
Mathew Rainthel, Haley & Aldrich, Inc.
2:20 p.m. - 2:40 p.m. Implications of Indoor Air Background Concentrations on Health Risks in Buildings
Jay Peters, Haley & Aldrich, Inc.
2:40 p.m. - 3:00 p.m. Influence of Building Type on Indoor Air Pollutants on a College Campus
Grant Erlandson, Colorado State University.

C14: How Can We Make Improved Risk Management Decisions With Occupational Exposure Banding and Checklist Tools? Part 1
2:00 p.m. - 3:00 p.m. Room 103
Moderator: Thomas Lentz, NIOSH. Presenters: Susan Arnold, University of Minnesota; Lauralynn McKernan, CDC/NIOSH; Elizabeth Pullen, Clarient Corp.

C15: Emerging Issues in Beryllium Regulation, Part 1
2:00 p.m. - 3:00 p.m. Room 113A
Moderator: Michael Brisson, Savannah River National Laboratory. Presenters: Lisa Barker, National Jewish Health; Theodore Knudson, Materion Brush Inc.

D1: Aerosols in Different Environments: Workplace Dust Fractions, Bioaerosol Sampling, and Theatrical Fog Use
3:15 p.m. - 4:15 p.m. Room 118
Moderator: Catherine Bobenhausen, Colden Corporation.
3:15 p.m. - 3:35 p.m. Bioaerosol Sampling in the Operating Room: Nontuberculous Mycobacteria
Bryan Christensen, Centers for Disease Control and Prevention.
3:35 p.m. - 3:55 p.m. Investigation of the Ratio Between Inhalable and Respirable Dust Fractions
Cornelia Wippich, Institute for Occupational Safety and Health of the German Social Accident Insurance, Germany.
3:55 p.m. - 4:15 p.m. Lights, Camera, Fog! A Study of Theatrical Fog Use
Mona Shum, Aura Health and Safety Corporation.

D2: Rondo alla Turca: Dealing with Cappadocia Erionite
3:15 p.m. - 4:15 p.m. Room 104

D3: The Academic Climate: Industrial Hygiene and Related Programs
3:15 p.m. - 4:15 p.m. Room 113A
Moderator & Presenter: Roger Lewis, Saint Louis University. Presenter: Lawrence Whitehead, University of Texas at Houston, Texas Medical Center.
D4: Emerging Issues in IH:
Electronics Recycling, Nail Technician Intervention, and Odor Evaluation
3:15 p.m. - 4:15 p.m. Room 108B
Moderator: Erin Higgins, UCSF.
Safety and Health Issues in the Electronics Recycling Industry
Lloyd Andrew, EnviROSH Services, Inc.
3:35 p.m. - 3:55 p.m.
Development of an Intervention Program for Vietnamese Nail Technicians
Tran Huynh, Drexel University, Dornsife School of Public Health.
3:55 p.m. - 4:15 p.m.

D5: Keeping Up with Recent Changes to OSHA’s Recordkeeping Rule
3:15 p.m. - 4:15 p.m. Room 115BC
Moderator & Presenter: Zoe Frances, VelocityEHS, Canada.

D6: Come Watch a Speaker’s Epic Failure (So You Don’t Experience One)!
3:15 p.m. - 4:15 p.m. Room 112
Presenter: Jonathan Klane, Arizona State University.

D7: Current Challenges in Sampling & Analysis: Rules, Strategies, and Devices
3:15 p.m. - 4:15 p.m. Room 113BC
Moderator: Sarath Seneviratne, FDA/ CBER.
The New Rule on Silica Demands More From Your Lab!
3:35 p.m. - 3:55 p.m.
Dilemmas with Silica Sampling Strategies and Interpretation
Lydia Renton, BluMetric Environmental Inc.
3:55 p.m. - 4:15 p.m.
Direct Reading Plus Sample Collection in One Device
Peter Briscoe, Nanozen.

D8: Transforming Risk Culture with Intention and Leadership
3:15 p.m. - 4:15 p.m. Room 111

D9: Household Exposure: Correlating Cumulative Exposure with Lung Digestion Analyses
3:15 p.m. - 4:15 p.m. Room 117

D10: Nanotechnology: Updates and Challenges for the Future, Part 2
3:15 p.m. - 4:15 p.m. Room 108A
Moderator: William Collier, UC Merced. Presenters: Candace Sujung Tsai, Colorado State University; Martin Barrie, Oak Ridge Associated Universities; Kevin Dunn, NIOSH.

D11: How a Laboratory Fire Death Lead to a New Safety Initiative
3:15 p.m. - 4:15 p.m. Room 116
Moderator: Caroline Holtzman, DuPont. Presenters: Craig Merlic, University of California, Davis; Jeff Fackler, DuPont Protection Technologies.

D12: Exposure Implications of Electronic Cigarette Surface Contamination
3:15 p.m. - 4:15 p.m. Room 105
Moderator: Warren Friedman, U.S. Department of Housing and Urban Development. Presenters: Cheri Marcham, Embry-Riddle Aeronautical University; Evan Floyd, University of Oklahoma.

D13: Upton Sinclair Lecture: North America’s Invisible Workers
3:15 p.m. - 4:15 p.m. Room 119
Moderator: Suzanne Monahan, SCIEX. Presenter: Sara Mojtehedzadeh, Toronto Star.

D14: How Can We Make Improved Risk Management Decisions With Occupational Exposure Banding and Checklist Tools? Part 2
3:15 p.m. - 4:15 p.m. Room 103
Moderator: Lauralynn McKernan, CDC/ NIOSH. Presenters: Thomas Lentz, NIOSH; Anne Bracker, Connecticut OSHA; Andrew Maier, University of Cincinnati.

D15: Emerging Issues in Beryllium Regulation, Part 2
3:15 p.m. - 4:15 p.m. Room 109
Moderator: Michael Brisson, Savannah River National Laboratory. Presenters: Dan Field, National Nuclear Security Agency; Nicole Bernholc, Brookhaven National Laboratory.

Student Poster Session
Author Attend Time 3:15 p.m. - 4:15 p.m. Student Posters Zone, The Hub, Exhibit Hall B

Expo Hall Networking Reception
4:30 p.m. – 5:30 p.m. Hall A
This annual networking tradition gets the night started with some tasty nibbles and a free drink (ticket included in badge materials).

Late Night Learning
Safety and Industrial Hygiene Efforts in Response to Recent Disasters
8:00 p.m. - 10:00 p.m. Marriott, Room 302/303
Presenters:
- Laura Weems, U.S, Army Corps of Engineers
- Edward Primeau, USCG Atlantic Strike Team
- Antonio Cofresi, U.S. Coast Guard
- Patrick Wallace, United States Coast Guard, Safety & Environmental Health Division
- Pablo Sanchez Soria, Center for Toxicology and Environmental Health, LLC
- Craig Groman, United States Coast Guard IMAT.
Stop by and see what’s happening at AIHA’s RESOURCE CENTER!

MEET...
Rich Karlgaard — Book signing Monday, May 21 from 12:15 p.m. – 1:00 p.m.
Books available for purchase in advance, when the Booth opens on Monday morning.

RECHARGE... Visit our complimentary Re-Charge Lounge for your mobile devices as well as our NEW daily snack breaks to refresh you! We have lots of new AIHA swag this year. Join us for treats during our NEW coffee and snack hours as well as partaking of our Candy Wall!

CHAT... face-to-face with AIHA, PAT, and Registries staff.
DISCOVER... by participating in demos of the new AIHA online community/networking platform, Catalyst.
LEARN... what new AIHA products and benefits are now available to you!

Enjoy 20% off AND free shipping on the Top 20 AIHA Bestsellers, as well as these NEW titles:

- 2018 ERPG/WEEL Handbook
- Incident Safety and Health Management Handbook, 2nd edition
- Storage Rack Safety Guideline, 2nd edition
- Technical Guide for Wildfire Impact Assessments for the OEHS Professional
- Direct-Reading Colorimetric Indicator Tube Manual, 3rd edition

Booth 1039

We look forward to seeing you at the AIHA RESOURCE CENTER
Just follow the huge rotating ceiling sign!
Dust & Noise Monitors

- Simple to use
- Slim and ergonomic designs
- Intrinsically safe
- Long battery life
- Comprehensive data capture
- App to save time and view data remotely

See our new Air Flow Calibrator, the Flow Detective™ at the AIHce Exp2018

Stand 1631
Tuesday At-a-Glance

As of April 4, 2018

Tuesday, May 22

6:00 a.m. – 8:00 a.m.
• Real Time Detection Systems Committee, Marriott, Room 402/403

6:30 a.m. – 8:00 a.m.
• Academic Special Interest Group, Marriott, Room 301
• Fun Run/Walk

8:00 a.m. – 9:00 a.m.

General Session
Mitigating Opioid Exposure Risks to First Responders – What’s Been Done, What’s Left to Do & How You Can Help

Ballroom AB

Moderator: Steven Lacey, Indiana University Fairbanks School of Public Health

Presenters: Kemp Chester, Office of National Drug Control Policy; Donna Heidel, Bureau Veritas North America; John Howard, NIOSH; Adam Thiel, Philadelphia Fire Department.

9:00 a.m. – 10:00 a.m.
• AIAH-ACGIH Interaction Committee (by invitation only), Marriott, Room 308

9:00 a.m. – 4:00 p.m.
CareerAdvantage Development Fair Open, The Hub, Hall B

• Online Job and Resume Postings all day
• Resume Critiquing – 9:00 a.m. – 10:00 a.m.
• Mock Interviewing – 10:00 a.m. – Noon
• On-Site Interviews – 1:00 p.m. – 3:00 p.m.
• Resume Critiquing – 1:00 p.m. – 3:00 p.m.
• Speed Networking Event – 3:00 p.m. – 4:00 p.m.

9:30 a.m. – 9:55 a.m.
• Student Poster Winner “Best in Show Gold,” Education in the Learning Zone, The Hub, Hall B
• Chair Yoga, Health and Wellness in the Learning Zone, The Hub, Hall B

10:00 a.m. – 10:25 a.m.
• Student Poster Winner “Best in Show Silver,” Education in the Learning Zone, The Hub, Hall B
• Q & A Session/Superfoods/Nutrition Takeaways, Health and Wellness in the Learning Zone, The Hub, Hall B

10:00 a.m. – 11:00 a.m.
• E1: Studies in Real-Time Detection Systems: Measuring Exposures, Room 113BC

11:15 a.m. – 12:15 p.m.
• F1: Toward a Holistic Approach to Occupational Safety and Health: NIOSH’s Early Explorations, Room 119
• F2: Effective Safety Communication, Room 113BC
• F3: The Emerging Cannabis Industry: Health, Safety, and Laboratory Issues, Part 2, Room 103
• F4: Legionella and Water Management: Control Measures, Trend Data, and Chemical Treatment, Room 108A
• F5: STPA Hazard Evaluation Technique: A New Tool in the IH/OS Tool Box, Room 105
• F6: What Is Best in Class Contractor Management?, Room 109

12:30 p.m. – 1:30 p.m.
• NIOSH TechTalks: Current Topics, Table Topics Zone, The Hub, Exhibit Hall B

2:00 p.m. – 2:25 p.m.
• Gifting Strategies That Still Make Sense, Education in the Learning Zone, The Hub, Hall B

2:00 p.m. – 3:00 p.m.
• G1: On-Site: Safe Site, Room 104
• G2: Bring Out Your Dead: Changing Exposures in the Death Industry, Room 116
• G3: On Becoming a “Senior” IH: Embracing Change and Challenging Ageism, Room 116
• G4: Healthy by Design: Building for Wellness, Room 117
• G5: Help! I’m Being Audited by OSHA, Room 103
• G6: Sampling and Analysis of Air Contaminants, Room 118
• G7: Preventing Worker Distractions Before They Result in Injury, Room 105
• G8: Topics in Noise: Hearing Conservation Programs, Room 108A
• G9: When Disaster Strikes: OSHA Professional Support During the Hurricane Harvey Response, Room 109
• G10: Current Ergonomic Challenges and Assessment Tools, Room 113A
• G11: Exposure Assessment: Past, Present, and Future, Room 113BC
Events take place at the Pennsylvania Convention Center, unless otherwise noted.

• G12: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 1, Room 119
• G13: William P. Yant Award Lecture: Reflections on the Past, Present, and Future of Occupational Hygiene, Room 115BC
• G14: Movie Matinee: COMPLICIT, Room 108B
2:00 p.m. – 4:00 p.m.
• Local Sections Council Business Meeting, Room 203AB
2:00 p.m. – 4:30 p.m.
• OHSMS Auditor Registry Exam, Marriott, Room 301
2:30 p.m. – 2:55 p.m.
• How to Be a Catalyst in 20 Minutes!, Education in the Learning Zone, The Hub, Hall B
• Walking for Health, Health and Wellness in the Learning Zone, The Hub, Hall B
3:00 p.m. – 3:25 p.m.
• New ISO 45001 - Risks and Opportunities for the OH&S Management System, Education in the Learning Zone, The Hub, Hall B
• Healthy Eating: Eating at the Workplace, Health and Wellness in the Learning Zone, The Hub, Hall B
3:00 p.m. – 4:30 p.m.
• OHTA Stakeholders Meeting, Room 100AB
3:15 p.m. – 4:15 p.m.
• H1: Studies in Respiratory Protection: Assessment Challenges and Solutions, Room 103
• H2: IH in Russia and the United States: Countries Far Apart, Colleagues Nearby, Room 104
• H3: Student Internships: Lessons Learned From the Field, Room 111
• H4: Implications of USP 800 in Healthcare Systems and Pharmacies, Room 113A
• H5: Hazard Analysis Lessons Learned, Room 118
• H6: Microbes in All the Wrong Places: Monitor and Manage Risks from Microbial Pathogens, Room 105
• H7: Selling Safety to the Front Line Employee, Room 109
• H8: Sampling & Analysis Studies: Potentially Unexpected Exposures for Workers & Consumers, Room 116
• H9: Risk Management: A Simple Technical Application, Room 108C
• H10: Computers and IH: New Applications in Data Center Evaluation, Smart Inventory Management, and Software for Silica Monitoring, Room 117
• H11: Current Topics in Laboratory Health and Safety: Chemical Exposures & Ventilation, Room 108A
• H12: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 2, Room 119
• H13: Henry J. Smyth Jr. Award: Find the Need and Fill it, Room 115BC

3:30 p.m. – 3:55 p.m.
• What to Expect with the New ISO 17025, Education in the Learning Zone, The Hub, Hall B
• Power & Engagement/Visualize & Realize Success, Health and Wellness in the Learning Zone, The Hub, Hall B
4:00 p.m. – 4:30 p.m.
• Guideline Foundation, Marriott, Room 308
4:00 p.m. – 6:00 p.m.
• Philadelphia Section AIHA Reception, Marriott, Room 409
• University of Cincinnati Kettering Fellows, Field House Restaurant
4:30 p.m. – 5:30 p.m.
• Exposure Assessment Strategies Committee - Dermal Project Team, Marriott, Grand Ballroom L
• Fellows Special Interest Group, Room 204A
4:30 p.m. – 6:00 p.m.
• AIHF Board of Trustees Meeting, Marriott, Room 308
• University of California, Berkeley Alumni Gathering, Marriott, Room 407
• University of Michigan Alumni and Friends Reception, Marriott, Room 408
• University of Texas and University of Houston-Clear Lake Alumni, Marriott, Room 406
4:30 p.m. – 5:30 p.m.
• Standards Panel Meeting, Marriott, Room 310
4:30 p.m. – 6:00 p.m.
• Conference Program Committee Meeting, Marriott, Room 306
4:30 p.m. – 6:30 p.m.
• International Affairs Committee, Marriott, Room 402/403
• Mining Working Group, Marriott, Room 414/415
• Non-Ionizing Radiation Committee, Marriott, Room 410
• Risk Committee, Marriott, Room 401
• Stewardship and Sustainability Committee, Marriott, Room 309
• Women in IH, Room 201A
5:00 p.m. – 6:30 p.m.
• Joint Industrial Hygiene Ethics Education Committee (JIHEEC), Marriott, Room 304
5:00 p.m. – 7:00 p.m.
• Indoor Environmental Quality Committee, Marriott, Room 404
• Minority Special Interest Group, Marriott, Room 405
• Safety Committee, Marriott, Room 411
5:00 p.m. – 8:00 p.m.
• xRapid Environment Meet and Greet (by invitation only), Ritz Carlton, Arden Mellon Balcony

5:30 p.m. – 6:30 p.m.
• Biosafety and Environmental Microbiology Committee, Marriott, Room 307
• Confined Spaces Committee, Marriott, Room 412
5:30 p.m. – 7:30 p.m.
• Sampling and Laboratory Analysis Committee, Marriott, Room 413
6:00 p.m. – 7:00 p.m.
• Aerosol Technology Committee, Marriott, Room 305
7:00 p.m. – 8:00 p.m.
• Environmental Issues Committee, Marriott, Room 301

8:00 p.m. – 10:00 p.m.
• Late Night Learning: Case Studies in Ethics: Making the Right Choices, Marriott, Room 302/303

Tuesday, May 22, 2018
6:30 p.m. – 7:30 p.m.
Philadelphia Marriott Downtown, Grand Ballroom H
The AIHce Power Hour is an extremely popular, fun, high-energy atmosphere perfect for networking. Attendees can unwind after a full day of presentations and discuss their takeaways with each other while making new connections. The timing is perfect for pre-dinner conversation and arranging dinner plans with new friends! Take advantage of this opportunity to regroup before heading out to try some of Philadelphia’s incredible restaurants.
Tuesday, May 22
Education Sessions

General Session
Mitigating Opioid Exposure Risks to First Responders — What’s Been Done, What’s Left to Do & How You Can Help
8:00 a.m. - 9:00 a.m., Ballroom AB
Moderator: Steven Lacey, PhD, CIH, CSP, Indiana University Fairbanks School of Public Health
Presenters: Kemp Chester, Office of National Drug Control Policy; Donna Heidel, CIH, FAIHA, Bureau Veritas North America; John Howard, MD, MPH, JD, LLM, MBA, NIOSH; Adam Thiel, Fire Commissioner, Philadelphia Fire Department.

Opioid addiction is causing an unprecedented public health crisis that requires the collaboration and action of our leading national organizations dedicated to countering addiction. However, we must also consider the potential for our nation’s first responders, including law enforcement, emergency medical technicians, and crime lab analysts, to be exposed to opioids while on the job. This moderated roundtable discussion will raise awareness about the drugs, addiction crisis, and precautions first responders must take when responding to medical emergencies and investigating illicit drug activity. Session panelists will provide information on the work that has been done by nonprofit organizations, Federal and State governments, and how industrial hygiene professionals can support the development and implementation of exposure controls and educational materials for first responders.

Morning Sessions in The Hub
Hall B
9:30 a.m. - 9:55 a.m.
• Student Poster Winner “Best in Show Gold,” Education in the Learning Zone
• Chair Yoga Session 2, Health and Wellness in the Learning Zone
• Cooking Demonstration: Breakfast Egg Salad Wrap, Center column

10:00 a.m. - 10:25 a.m.
• Student Poster Winner “Best in Show Silver,” Education in the Learning Zone
• Q & A Session/Superfoods/Nutrition Takeaways, Health and Wellness in the Learning Zone
• Cooking Demonstration: PB&J Power Smoothie, Center column

10:30 a.m. - 10:55 a.m.
• Student Poster Winner “Best in Show Bronze,” Education in the Learning Zone
• Mindfulness and Stress Release, Health and Wellness in the Learning Zone
• Cooking Demonstration: Sweet Potato Hash, Center column

10:00 a.m. - 11:00 a.m., Room 113BC
Moderator: Jennifer Maclachlan, PID Analyzers, LLC.

10:00 a.m. - 10:20 a.m.
Side by Side Evaluation of Real-time Personal Monitors for Respirable Dust
Emanuele Cauda, NIOSH.

10:20 a.m. - 10:40 a.m.
Intra-Sampling Period Variability: Strengths and Weaknesses of Real-Time Detection
Philip Smith, US DOL/OSHA.

10:40 a.m. - 11:00 a.m.
Rapid Systems for the Detection of Legionella Bacteria
Michael Berg, EMLab P&K South.

E2: Developing Countries: Industrial Hazards and Exposure Potential
10:00 a.m. - 11:00 a.m., Room 104

Full session descriptions may be found in the mobile app. Events take place at the Pennsylvania Convention Center unless otherwise noted.
## Exhibitor Product Demos and Presentations

**9:00 a.m. – 2:00 p.m., Expo Learning Pavilions 1 & 2, Hall A**

### Learning Pavilion 1
**(behind the AIHA Booth)**

<table>
<thead>
<tr>
<th>Time</th>
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| 9:10 a.m. – 9:35 a.m. | **Smart Sense: Air Sampling HERE, When You’re THERE!**  
SGS Galson  
Introducing SGS Galson Smart Sense, a web-based real-time monitoring system that can be deployed anywhere in the world, with as many sensors as you like. Stop by for a live demo of the industry’s first modern networking technology — an instant connection to your data, air quality profiles, downloads, warnings, and reports. |
| 9:45 a.m. – 10:10 a.m. | **Innovation in the Pump Calibration**  
Casella  
Casella has designed the first airflow calibrator to check compliance to ISO 13137 for pulsations on any manufacturer’s pump, across a flow of 20mL/min to 5,000 mL/min. |
| 12:15 p.m. – 12:40 p.m. | **Hazard and Exposure Monitoring Management Made Easy**  
Risk and Safety Solutions  
Risk and Safety Solutions will demonstrate Monitor, a simple online solution for tracking data related to monitoring personnel and locations for exposures to chemicals and other hazards. We’ll show how you can improve compliance while easily monitoring current researchers and locations and efficiently referencing archived exposure records. |
| 12:50 p.m. – 1:15 p.m. | **Real-Time Dust Monitoring With a Personal Wearable Device: Case Studies**  
Nanzen Industries Inc.  
Review a number of case studies, how they altered dust monitoring approaches, and led to new SoPs. |
| 1:25 p.m. – 1:50 p.m. | **Meeting the New Chromium TLVs — Assessing Workplace Exposure to Chromium Metal, Trivalent Chromium and Hexavalent Chromium**  
ESIS Health Safety & Environmental  
The newly adopted TLV for trivalent and hexavalent chromium requires new risk assessment where chromium is used in the workplace. Additionally, new sampling requirements and analytical methods are needed to perform these assessments. This presentation will cover the changes and how-to of assessing workers’ chromium risk. |

### Learning Pavilion 2
**(Aisle 2000)**

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<th>Time</th>
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| 9:10 a.m. – 9:35 a.m. | **Manage Your Portable Gas Detection Fleet (Compliance, Alarms, and More) in Real Time With MSA ALTAIR Grid**  
MSA The Safety Company  
Manage your gas detection fleet including compliance, gas exposure alarms, and other worker safety alerts in real time from anywhere in the world with the MSA ALTAIR Grid. |
| 9:45 a.m. – 10:10 a.m. | **A New CNC-Based Fit Tester**  
Kanomax USA/Accutec-IHS  
AccuTec-IHS announces a new condensation nucleus-counting instrument for fit testing tight-fitting respirators in accordance with 29.CFR 1010.134. The instrument was a collaborative development project with Kanomax and Kanomax FMT to provide an extremely reliable, cost-effective, and user-friendly alternative to existing systems. We’ll talk about the history of the project and the advantages of the new instrument. |
| 12:15 p.m. – 12:40 p.m. | **Can You Hear Me Now? Noise Control Methodologies**  
Noise Control Engineering LLC  
The costs of having workers in a hearing conservation program, and also disability liabilities of a noisy work environment, have increased the importance of noise abatement to lower noise levels. Advanced techniques, which have been used in difficult environments to lower noise levels, will be presented. If your facility has high noise levels, make sure you attend! |
| 12:50 p.m. – 1:15 p.m. | **Leveraging the Power of Tablet-Based Audiometry to Bring Your Hearing Conservation Program Into the 21st Century**  
SHOEBOX Audiometry a division of Clearwater Clinical  
Tablet-based audiometric solutions have the power to revolutionize your hearing conservation program. Join us for a 15-minute presentation as we discuss how switching to a tablet-based system can dramatically increase the efficiency and reduce the cost of your hearing conservation program. |
| 1:25 p.m. – 1:50 p.m. | **Cab Pressurization and Filtration for Compliance and Worker Protection**  
Sy-Klone International  
Machine operators can spend their day breathing contaminated air within a cab enclosure if that cab is not properly sealed and pressurized. Sy-Klone invites you to see areas of the cab that must be addressed to ensure worker health and safety and learn to meet regulatory compliance with proper filtration. |
Education Sessions Tuesday, May 22

E3: The Emerging Cannabis Industry: Worker Safety and Health, Part 1
10:00 a.m. - 11:00 a.m. Room 103
Moderator: Robert Kleinerman, Kleinerman & Associates, EHS Consulting, LLC.
Presenters: Bradley King, NIOSH; Michael Kosnett, University of Colorado School of Medicine; Roberta Smith, Colorado Department of Public Health & Environment.

10:00 a.m. - 11:00 a.m. Room 109
Moderator: Karen O’Hara, WorkCare, Inc.
Presenter: Peter Greaney, WorkCare, Inc.

E5: Biological Monitoring of Manganese
10:00 a.m. - 11:00 a.m. Room 117
Moderator & Presenter: Shane Que Hee, University of California at Los Angeles.
Presenters: Boris Reiss; Lee Blum, NMS LABS.

E6: How to Win Friends and Influence People (the EHS Edition)
10:00 a.m. - 11:00 a.m. Room 111
Moderator: Michelle Coutu, Presenters: Braxton Lewis, Noblis; Charles Redinger, Redinger 360, Inc.; David Roskelley, R&R Environmental, Inc.

E7: Challenges and Innovations in Sampling & Analysis Methodology
10:00 a.m. - 11:00 a.m. Room 108A
Moderator: Lee Monteith, University of Washington.
10:00 a.m. - 10:20 a.m. The Difference Between NOA and ACM is More Than Just Two Letters
Robyn Denton-Ray, EMSL Analytical, Inc. 10:20 a.m. - 10:40 a.m.
Production of Reference Materials for the Measurement of Metal Oxides
Dietmar Breuer, IFA, Germany. 10:40 a.m. - 11:00 a.m.
A Comparison of Sampling & Testing Options for Fire Damage Investigations
Eugenia Mirica, EMSL Analytical, Inc.

E8: Legal Aspects of the IH Profession: Things You Should Care About
10:00 a.m. - 11:00 a.m. Room 119
Moderator: Jeanine Prud’homme, New York City Department of Environmental Protection. Presenter: Neil Fieldscher, New York City Department of Environmental Protection.

E9: Women in IH: Leadership Journeys to Success, Part 1
10:00 a.m. - 11:00 a.m. Room 118
Moderator: Ivy Hiehancho, Foster Wheeler. Presenters: Aileen Yankowski, Safety Management Solutions; Toral Mehta, Novartis, Austria; Isabel Zultich, PPG.

E10: Hazardous Atmosphere Estimation
10:00 a.m. - 11:00 a.m. Room 105
Moderator & Presenter: Arnold Ferguson, WRPS.

E11: Design Review for Industrial Hygienists, Part 1
10:00 a.m. - 11:00 a.m. Room 108B

E12: The Snook & Ciriello Tables for Manual Material Handling Analysis
10:00 a.m. - 11:00 a.m. Room 112

E13: A Review on Airborne Fungal Spore Sampling Devices
10:00 a.m. - 11:00 a.m. Room 116

E14: SDS Authoring & Reviewing, Part 1
10:00 a.m. - 11:00 a.m. Room 113A

E15: Jeffrey S. Lee Lecture: Big Bangs and Black Holes – Past, Present, and Future Opportunities and Challenges for Industrial Hygiene
10:00 a.m. - 11:00 a.m. Room 115BC
Presenter: Charles Geraci, NIOSH.

E16: Ask the Experts: Opioids Panel
10:00 a.m. - 11:00 a.m. Room 106
Moderator: Steven Lacey, Indiana University Fairbanks School of Public Health. Presenters: Kemp Chester, Office of National Drug Control Policy; Donna Heidel, Bureau Veritas North America; John Howard, NIOSH; Adam Thiel, Philadelphia Fire Department.

F1: Toward a Holistic Approach to Occupational Safety and Health: NIOSH’s Early Explorations
11:15 a.m. - 12:15 p.m. Room 119
Moderator & Presenter: Paul Middendorf, CDC/NIOSH/OID/ADSO. Presenters: L. Casey Chosewood, CDC/NIOSH; Thomas Lentz, NIOSH.

F2: Effective Safety Communication
11:15 a.m. - 12:15 p.m. Room 113BC
Moderator: Christine Knezevich, Wright Patterson AFB. Presenter: Curt Wittman, Colden Corporation.

F3: The Emerging Cannabis Industry: Health, Safety, and Laboratory Issues, Part 2
11:15 a.m. - 12:15 p.m. Room 103
Moderator: Cheri Marcham, Embry-Riddle Aeronautical University. Presenters: David Kahane, Forensic Analytical; Donald Weekes, InAIR Environmental, Ltd.; George Bearer, U.S. Department of Health and Human Services.

F4: Legionella and Water Management: Control Measures, Trend Data, and Chemical Treatment
11:15 a.m. - 12:15 p.m. Room 108A

F5: STPA Hazard Evaluation Technique: A New Tool in the IH/OS Tool Box
11:15 a.m. - 12:15 p.m. Room 105
Moderator & Presenter: Kelsey Forde, Parvati Consulting LLC. Presenter: Timothy Stirrup, Parvati Consulting LLC.

F6: What is Best in Class Contractor Management?
11:15 a.m. - 12:15 p.m. Room 109
Moderator & Presenter: David Bibby, ISN.

F7: The Complexities of Soil Sampling for Asbestos and Other Mineral Fibers
11:15 a.m. - 12:15 p.m. Room 111
Moderator & Presenter: Ed Cahill, EMSL Analytical. Presenter: Tim Frederick, EPA.
Tuesday, May 22  Education Sessions

F8: Risk Assessment & Management in Industry
11:15 a.m. - 12:15 p.m.  Room 115BC
Moderator: Dawn Bolstad-Johnson, PHI Air MEDICAL.
11:15 a.m. - 11:35 a.m.
Customized IH Qualitative Risk Assessment Model for Pharmaceutical Industries
Toral Mehta, Novartis, Austria.
11:35 a.m. - 11:55 a.m.
Developing a Health-Based Surface Clean up Level (SCL) for Metals
Michael Strange, ESIS.
11:55 a.m. - 12:15 p.m.
Risk Assessment for the Use of a Phenolic Biocide

F10: So Now You're the RSO: Introduction to Radiation Safety Programs
11:15 a.m. - 12:15 p.m.  Room 117

F11: Design Review for Industrial Hygienists, Part 2
11:15 a.m. - 12:15 p.m.  Room 108B

F12: Helping Academic Research Labs Identify Chemical Hazards: A GHS Spreadsheet Tool
11:15 a.m. - 12:15 p.m.  Room 104
Moderator & Presenter: Courtney Stanion, Duke University.

F13: How to Conduct Sampling for Fire-Related Particulates and Odors
11:15 a.m. - 12:15 p.m.  Room 113A
Moderator: Mike Smith, Amec Foster Wheeler. Presenter: Michelle David, Amec Foster Wheeler.

F14: SDS Authoring and Reviewing, Part 2
11:15 a.m. - 12:15 p.m.  Room 116

Poster Session 2
Author Attend Time 11:15 a.m. - 12:15 p.m.
Professional Posters Zone, The Hub, Exhibit Hall B
Topics: Exposure Assessment Strategies, Sampling and Analysis, Exposure Banding/Occupational Exposure Limits
See page 48 for posters on this topic. For a full list of co-authors and detailed abstracts, see the AIHce 2018 website.

Expo Hall Activities
12:00 p.m. – 2:00 p.m.
Hall A at the columns in the 1300 and 1700 aisles and in the AIHA Booth 1039
Hank's Ice Cream Float Bar – Hank's Gourmet Beverages is a Philly family business. Enjoy a float featuring one of their 7 famous flavors!

NIOSH Tech Talks: Current Topics
12:30 p.m. - 1:30 p.m.
Table Topics Zone, The Hub, Exhibit Hall B

G1: On-Site: Safe Site
2:00 p.m. - 3:00 p.m.  Room 104

G2: Bring Out Your Dead: Changing Exposures in the Death Industry
2:00 p.m. - 3:00 p.m.  Room 116
Moderator & Presenter: Eva Glosson, WA State Department of Labor and Industries. Presenter: Kat Gregerson, WA State Department of Labor and Industries.

G3: On Becoming a "Senior" IH: Embracing Change and Challenging Ageism
2:00 p.m. - 3:00 p.m.  Room 111

G4: Healthy by Design: Building for Wellness
2:00 p.m. - 3:00 p.m.  Room 117
Moderator: Jennifer Taranto, Structure Tone. Presenters: Kate Rube, International WELL Building Institute; Kathryn Tart, GBCI.

G5: Help! I’m Being Audited by OSHA
2:00 p.m. - 3:00 p.m.  Room 103
Moderator: Bryan Heard, Sustainable Workplace Alliance. Presenter: David Casavant, Sustainable Workplace Alliance.

G6: Sampling and Analysis of Air Contaminants
2:00 p.m. - 3:00 p.m.  Room 118
Moderator & Presenter: Ryan LeBouf, NIOSH. Presenters: Charles Manning, Maria Peralta, Assay Technology; Scott Van Etten, EMSL Analytical Inc.

G7: Preventing Worker Distractions Before They Result in Injury
2:00 p.m. - 3:00 p.m.  Room 105
Moderator & Presenter: Brendan Moriarty, Chubb Insurance. Presenter: Greg Griffith, Chubb Insurance.

G8: Topics in Noise: Hearing Conservation Programs
2:00 p.m. - 3:00 p.m.  Room 108A
Moderator: Janet Kivuyo, Department of Defense, Corpus Christi Army Depot. 2:00 p.m. - 2:20 p.m.
Use of Statistical Analysis & Modeling for Hearing Conservation Programs
Rob Brauch, Occupational Health and Safety Solutions. 2:20 p.m. - 2:40 p.m.

G9: When Disaster Strikes: OS&H Professional Support During the Hurricane Harvey Response
2:00 p.m. - 3:00 p.m.  Room 109
Moderator: Stephen Graham, U.S. Army MEDCOM PHC (Retired). Presenters: Laura Weems, U.S. Army Corps of Engineers; Craig Groman, United States Coast Guard IMAT; Edward Primeau, USCG Atlantic Strike Team.

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G10: Current Ergonomic Challenges and Assessment Tools
2:00 p.m. - 3:00 p.m.  Room 113A
Moderator: Chris Sparks, Bureau Veritas North America, Inc.
2:00 p.m. - 2:20 p.m.
Occupational Safety and Ergonomics Training Challenges Posed by Generation Z
Robert Thomas, Auburn University.
2:20 p.m. - 2:40 p.m.
Ergonomic Hazards for Non-routine Work at an Equipment Assembly Plant
Yuli Huang, National Kaohsiung First University of Science and Technology, Taiwan.

G11: Exposure Assessment: Past, Present, and Future
2:00 p.m. - 3:00 p.m.  Room 113BC
Moderator: Erin Higgins, UCSF.
2:00 p.m. - 2:20 p.m.
Re-creation of Historical Community Exposures to Dusts and Metals
Michael Posson, Exponent, Inc.
2:20 p.m. - 2:40 p.m.
Samples of Formaldehyde in 12,000 U.S. Homes: What We Learned
Ankur Singhal, Exponent, Inc.
2:40 p.m. - 3:00 p.m.
Exposure Assessment: Computational Fluid Dynamics (CFD) Versus Tracer Gas Results
Daniel Hall, Chemistry and Industrial Hygiene.

G12: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 1
2:00 p.m. - 3:00 p.m.  Room 119

2:00 p.m. - 3:00 p.m.  Room 115BC

G14: Movie Matinee: COMPLICIT
2:00 p.m. - 3:00 p.m.  Room 108B

H1: Studies in Respiratory Protection: Assessment Challenges and Solutions
3:15 p.m. - 4:15 p.m.  Room 103
Moderator: Michael Parham, 3M.
3:15 p.m. - 3:35 p.m.
Respiratory Protection for Abrasive Blasting and Thermal Arc Spray Cladding
3:35 p.m. - 3:55 p.m.
Simulated Workplace Evaluation of a Respirator Seal Integrity Monitor
Bingbing Wu, University of Cincinnati.
3:55 p.m. - 4:15 p.m.
Testing of Used Respirator Cartridges Confirm Change Schedules
Charles Manning, Assay Technology.

H2: IH in Russia and the United States: Countries Far Apart, Colleagues Nearby
3:15 p.m. - 4:15 p.m.  Room 104
Moderator: Eric Parham, Chemistry & Industrial Hygiene, Inc. Presenter: Andrey Korchevskiy, Chemistry & Industrial Hygiene, Inc.

H3: Student Internships: Lessons Learned From the Field
3:15 p.m. - 4:15 p.m.  Room 111
Moderator: Jake Shed, University of Alabama at Birmingham. Presenters: Teniope Adewumi-Gunn, UCLA; Ashley Price, University of Alabama at Birmingham; Andrea Guitingco, University of Michigan.

H4: Implications of USP 800 in Healthcare Systems and Pharmacies
3:15 p.m. - 4:15 p.m.  Room 113A

H5: Hazard Analysis Lessons Learned
3:15 p.m. - 4:15 p.m.  Room 118
Moderator & Presenter: Timothy Stirrup, Parvati Consulting LLC. Presenter: Kelsey Forde, Parvati Consulting LLC.

H6: Microbes in All the Wrong Places: Monitor and Manage Risks from Microbial Pathogens
3:15 p.m. - 4:15 p.m.  Room 105
Moderator: Kerry Ann Jaggassar, Ramboll Environ.
3:15 p.m. - 3:35 p.m.
Legionella Amplification in Potable Cold Water Systems’ Carbon Filters
Robert McNeely, Forensic Analytical Consulting Services.
3:35 p.m. - 3:55 p.m.
Ice Machines and Legionellosis
Larry Lee, Pacific Industrial Hygiene.
3:55 p.m. - 4:15 p.m.
The Role of Hospital Toilets in Microbial Dissemination
Jesse Cooper, Aura Health and Safety.

H7: Selling Safety to the Front Line Employee
3:15 p.m. - 4:15 p.m.  Room 109
Moderator & Presenter: Patrick Karol, Karol Safety Consulting, LLC.
TUESDAY

H8: Sampling & Analysis Studies:
Potentially Unexpected Exposures for Workers & Consumers
3:15 p.m. - 4:15 p.m. Room 116
Moderator: Thomas Slavin, Slavin OSH Group, LLC.
3:15 p.m. - 3:35 p.m.
Bisphenol A Exposure in U.S. Manufacturing Workers: Should We Be Concerned?
Cynthia Hines, NIOSH.
3:35 p.m. - 3:55 p.m.
Asbestos in Consumer Products: A Continued Health Risk
Robert DeMalo, EMSL Analytical, Inc.
3:55 p.m. - 4:15 p.m.
Proficiency Testing Scheme: Aldehydes in Workplace Air Samples
Franziska Nürnberger, Institute for Occupational Safety and Health, German Social Accident Insurance, Germany.

H9: Risk Management: A Simple Technical Application
3:15 p.m. - 4:15 p.m. Room 113BC

H10: Computers and IH: New Applications in Data Center Evaluation, Smart Inventory Management, and Software for Silica Monitoring
3:15 p.m. - 4:15 p.m. Room 117
Moderator: Iris Wang, Western Digital Technologies.
3:15 p.m. - 3:35 p.m.
New Applications for IH Evaluation Methods in Large Data Centers
Daniel Chute, BSI EHS Services and Solutions, Inc.
3:35 p.m. - 3:55 p.m.
*WITHDRAWN* Managing IH Equipment Inventory Using Smart Connected Technology
Eli Miller, 3M.
3:55 p.m. - 4:15 p.m.
New NIOSH Software for Field-based Crystalline Silica Monitoring
Emanuele Cauda, NIOSH.

H11: Current Topics in Laboratory Health and Safety: Chemical Exposures & Ventilation
3:15 p.m. - 4:15 p.m. Room 108A
Moderator: Garth Graham, W. L. Gore & Associates.
3:15 p.m. - 3:35 p.m.
A Comprehensive Policy for the Management of Time Sensitive Chemicals
Alyssa Brand, Lawrence Berkeley National Laboratory.
3:35 p.m. - 3:55 p.m.
Direct Reading Methods for Assessing VOC Exposures
Kenneth Brown, NIOSH.
3:55 p.m. - 4:15 p.m.
Laboratory Ventilation: Impact on the Building Environment
Michael Menz, EMSL Analytical.

H12: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 2
3:15 p.m. - 4:15 p.m. Room 119
Moderator: Leonard Zwack, NIOSH. Presenters: Eric Glassford, Catherine Beauchamp, Michael Grant, CDC/NIOSH.

H13: Henry J. Smyth Jr. Award: Find the Need and Fill it
3:15 p.m. - 4:15 p.m. Room 115BC
Moderator: Elizabeth Pullen, Clarient Corp. Presenter: Cheri Marcham, Embry-Riddle Aeronautical University.

Late Night Learning
Case Studies in Ethics: Making the Right Choices
8:00 p.m. - 10:00 p.m.
Marriott, Room 302/303
Presenter: Mark Katchen, The Phylmar Group, Inc.

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What is IOHA 2018 and Why should you attend?
The 11th IOHA International Scientific Conference (IOHA 2018) is a special event, whose mission is to create a global appeal to an international audience of multi-disciplined professionals with a focus on worker health protection and exposure control. The conference will provide a unique integrated platform of workplace health and well-being in a professional and scientific arena ideal for hearing the latest science and viewpoints, as well as networking and professional development opportunities.

ANNOUNCING
Keynote Speaker
Nancy Leppink - Branch Chief
International Labour Organization, (LABADMIN/OSH)
Genève, Switzerland

Ms. Leppink will present worker health issues in a global economy dominated by large multinational corporations with access to labor in lesser developed countries, the impacts of such dependencies on worker well-being and rights, and the occupational health infrastructure needs in developing countries to address these new challenges.

Where will IOHA 2018 be located?
The IOHA conference will be held in Washington, DC, USA at the Marriott Marquis Hotel, 901 Massachusetts Avenue, NW.

Important Dates
• Professional Development Course (PDC) Presentations - September 22-23 & 27, 2018
• Conference - September 24-26, 2018

For more information, visit www.ioha2018.org.
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Wednesday At-a-Glance

As of April 4, 2018

Wednesday, May 23

6:30 a.m. – 8:00 a.m.
Mark of Excellence Awards
Breakfast

9:00 a.m. – 10:00 a.m.
• 11: Aerosol Measurements: Cyclonic and Spectroscopic Measurement, Room 112
• 12: You Are What You Write: Communication Methods Using Digital Media, Room 111
• 13: Emerging Issues in IH: Law Enforcement and National Security, Room 115
• 14: Bloodborne Pathogens: The First 25 Years of OSHA Enforcement, Room 108A
• 15: Which Asbestos Is Asbestos? Dealing With Ambiguous Minerals, Room 109
• 16: Strategic Partnerships for Reducing Health Risks in the Workplace, Room 108B
• 17: Risk Analysis Using Layer of Protection Analysis (LOPA), Room 105
• 18: Leverage Digital EHS Inspection and Asset Management Systems, Room 116
• 19: Environmental Exposure Assessments for Patients With Hypersensitivity Pneumonitis, Room 117
• 110: IH Perspective in Emergency Response to a Process Plant Fire, Room 113A
• 111: Using Anthropometrics for Industrial Workplace Design, Room 112
• 112: TLVs: Use, Misuse, and Misunderstandings, Room 103
• 113: Low-Cost 3-D Printing and Fabrication: Not Low in Fume Emission, Room 118
• 114: Donald E. Cummings Memorial Award Lecture, Room 119
• 115: Days of Our Lives: Practical Applications for the IH Laboratory and their Customers. Part 1: The Storms of Sampling and Analysis, Room 104

9:00 a.m. – 11:00 a.m.
• ACTIONS Committee Meeting, Room 202B

9:00 a.m. – 4:00 p.m.
CareerAdvantage Development Fair Open,
The Hub, Hall B
• Online Job and Resume Postings all day
• On-Site Interviews – 9:00 a.m. – Noon
• Resume Critiquing – 9:00 a.m. – Noon
• On-Site Interviews – 1:00 p.m. – 3:00 p.m.

9:30 a.m. – 9:55 a.m.
• Submitting a Session Proposal for AIHce EXP 2019, Education in the Learning Zone, The Hub, Hall B
• Chair Yoga, Health and Wellness in the Learning Zone, The Hub, Hall B

10:00 a.m. – 10:25 a.m.
• Dos, Don’ts, and Hints for Applying for the CIH Exam, Education in the Learning Zone, The Hub, Hall B
• Your Breath as a Meditative Focus to Claim and Reset the Mind, Health and Wellness in the Learning Zone, The Hub, Hall B

10:15 a.m. – 11:15 a.m.
• J1: Real-Time Sensor Technology: Applications By IH Students, Room 113B
• J2: Protecting African Workers: A Focus on East Africa, Room 117
• J3: Should You Be Worried? EHS Professionals in Jail, Room 103
• J4: Flash Fire and Explosions Caused by Electrostatic Discharges, Room 108A
• J5: Leadership and The Industrial Hygienist: A Perfect Combination!, Room 118
• J6: Developments in Beryllium Regulation, Sampling, and Laboratory Analysis, Room 105
• J7: Risk Assessment & Management Case Studies: Focus on Legislation and Policy, Room 109
• J8: Additive Manufacturing: Workplace Health and Safety, Part 1, Room 108B
• J9: Notable Confined Spaces: Some Awareness Issues, Part 1, Room 115B
• J10: Topics in Controls: Respirable Crystalline Silica, Fit-Test, and Welding Fume, Room 111
• J11: Exposure Assessments in Aviation and Live Weapons Training, Room 113A
• J12: How Are Innovative Technologies Affecting Your Culture?, Room 116
• J13: Stokinger Lecture: The Importance of Confirming Protection from Risks in All the Places We Live, Learn, Work, and Play, Room 119
• J15: Days of Our Lives: Practical Applications for the IH Laboratory and their Customers. Part 2: Drama Implementing Sustainable Continuous Improvement Program: Benefits, Hurdles, and Culture, Room 104
• Poster Session 3 Author Attend Time, Professional Posters Zone, The Hub, Exhibit Hall B
Topics: Healthcare, Occupational and Environmental Epidemiology, Regulation & Legislation.

10:30 a.m. – 10:55 a.m.
• Core Competencies for the Practice of Industrial/Occupational Hygiene, Education in the Learning Zone, The Hub, Hall B
• A Healthy Lifestyle – The Components, Health and Wellness in the Learning Zone, The Hub, Hall B
• Synergist/JOEH, Education in the Learning Zone, The Hub, Hall B
• Power Stretches, Health and Wellness in the Learning Zone, The Hub, Hall B

1:00 p.m. – 2:00 p.m.
• K1: Case Studies on the Respiratory Deposition of Metal Fume Particles, Room 105
• K2: Topics in Protective Clothing and Equipment: Focus on Respirators and Gowns, Room 113B
• K3: Innovations That Ignite Worker Health, Room 118
• K4: Healthcare Worker Occupational Exposure to Hazardous Drugs, Room 108A
• K5: Current Issues in Regulatory Policy: Updates on Lead and Legionella, Room 111
• K6: AIHA Local Sections: Managing, Marketing, Collaborating, & Engaging, Room 116
• K7: Biosafety and IH in Animal Research, Room 117
• K8: Additive Manufacturing: Workplace Health and Safety, Part 2, Room 108B
• K9: Notable Confined Spaces: Solutions to Improve Outcomes, Part 2, Room 115B
• K10: Interesting OSHA Health Cases, Part 1, Room 103
• K11: How To Make Your Makers Safe, Room 109
• K12: Waterborne Pathogens Mysteries Solved, Room 109
• K13: Mock Trial: Use of Expert IH Testimony in a Wrongful Termination Case, Part 1, Room 119

1:00 p.m. – 3:00 p.m.
• ABET Session, Marriott, Room 304

1:30 p.m. – 1:55 p.m.
• How Being Mentored Can Help You as a Student, Education in the Learning Zone, The Hub, Hall B
• Healthy Eating: Eating Out, Health and Wellness in the Learning Zone, The Hub, Hall B
Thursday At-a-Glance

As of April 4, 2018  
* denotes a NEW PDC

Thursday, May 24

7:00 a.m. – 7:30 a.m.
- PDC Monitor Meeting, Room 107AB

7:00 a.m. – 1:00 p.m.
- Registration, Arch Street Bridge

7:00 a.m. – 5:00 p.m.
- Speaker Ready Room, Room 107AB

8:00 a.m. – Noon
- PDC 901: Applying Industrial Hygiene to Environmental Infection Control in Healthcare Settings, Room 117
- PDC 902: Risk Assessment during an Incident Response, Room 109AB
- PDC 903: Designing Effective EHS Organizations Using Management Systems, Room 105AB

8:00 a.m. – 5:00 p.m.
- PDC 801: Train The Trainer — Improving IH Exposure Judgments, Room 119A
- PDC 802: Preparing for the Crisis — OHS Planning and Risk Communication, Room 108B
- PDC 803: Legal Issues and Exposures in Your IH Practice, Room 111AB
- PDC 804: The Sub-Microgram World — Guidance for Compliance with the OSHA Beryllium Standard, Room 108A
- PDC 805: Heat Stress — The Forgotten IH Fundamental, Room 104AB
- PDC 806: Hearing Loss Prevention — Beyond the Basics, Room 116
- PDC 807: OSHA Recordkeeping — The Good, the Bad, and the Ugly, Room 121C
- PDC 808: How to Implement a Fatigue Risk Management System, Room 122A
- PDC 809: Risk Assessment Boot Camp — Environmental and Occupational Health Applications, Room 119B
- PDC 810: Using the Business Case for Prevention through Design (PdD) Interventions, Room 120C

1:00 p.m. – 2:15 p.m.

2:00 p.m. – 2:25 p.m.

2:15 p.m. – 3:15 p.m.
- PDC 905: Nanomaterials: The Risks and Regulations, Room 112AB

2:30 p.m. – 2:55 p.m.
- PDC 906: Nanomaterials: The Risks and Regulations, Room 112AB

3:30 p.m. – 4:30 p.m.
- Closing Session
- Total Exposure Health: A Revolutionary Way to Think of Exposure and Primary Prevention
- Col.(ret.) Kirk Phillips, LJB Inc.
- Ballroom AB

4:30 p.m. – 6:30 p.m.
- Communication and Training Methods Committee, Marriott, Room 404
- Laboratory Health and Safety Committee, Marriott, Room 402/403

4:45 p.m. – 5:15 p.m.
- AIHA Annual Business Meeting, Marriott, Liberty Ballroom A

5:00 p.m. – 6:30 p.m.
- Oil and Gas Working Group, Marriott, Room 411/412

5:00 p.m. – 7:00 p.m.
- Career and Employment Services Committee, Marriott, Grand Ballroom J

5:30 p.m. – 6:30 p.m.
- AIHA Board of Directors/Staff Meeting (by invitation only), Marriott, Grand Ballroom K

6:00 p.m. – 8:00 p.m.
- University of South Florida Sunshine ERC Reception, Field House; 1150 Filbert Street; Philadelphia, PA 19107
**Wednesday, May 23**

**Education Sessions**

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**Mark of Excellence Awards**

Mark of Excellence Breakfast
7:00 a.m. - 8:00 a.m.
(doors open at 6:30 a.m.)
Ballroom AB

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**WEDNESDAY**

**I1: Aerosol Measurements: Cyclonic and Spectroscopic Measurement**
9:00 a.m. - 10:00 a.m.  Room 113BC
**Moderator:** Sarah Seneviratne, FDA/CBER.
9:00 a.m. - 9:20 a.m.  Collection Efficiency: Parallel-Particle Impactor vs. Aluminum Cyclone
Vincent Daliesio, EMSL Analytical Inc.
9:20 a.m. - 9:40 a.m.  Field and Laboratory Study of End-of-Shift Cyclone for Quartz Measurement
Taekhee Lee, CDC/NIOSH.
9:40 a.m. - 10:00 a.m.  Preparation of Mineral Calibration Samples for Fourier Transform Infrared Spectroscopy (FTIR)
Teresa Barone, NIOSH.

**I2: You Are What You Write: Communication Methods Using Digital Media**
9:00 a.m. - 10:00 a.m.  Room 111
**Moderator:** Andrew Burgie, NYU CGPH.
**Presenters:** Aileen Yankowski, Safety Management Solutions; Chandra Gioiello, Industrial Health and Safety Consultants, Inc.

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**I3: Emerging Issues in IH: Law Enforcement and National Security**
9:00 a.m. - 10:00 a.m.  Room 115BC
**Moderator:** Chris Laszcz-Davis, The Environmental Quality Organization, LLC.
9:00 a.m. - 9:20 a.m.  Evaluation of Thermal Stress in Law Enforcement Personnel
Stephanie Griffin, University of Arizona Tucson.
9:20 a.m. - 9:40 a.m.  Opioid Exposure Prevention for Law Enforcement Agencies
Robert Kirkby, Michigan State Police.
9:40 a.m. - 10:00 a.m.  The 21st Century: The Role of the IH in Global Commerce and National Security
Christine Knezevich, Wright Patterson AFB.

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**I4: Bloodborne Pathogens: The First 25 Years of OSHA Enforcement**
9:00 a.m. - 10:00 a.m.  Room 108A
**Moderator & Presenter:** Michael Pannell, NASA.
**Presenters:** Michael Hodgson, OSHA; Amber Mitchell, International Safety Center.

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**I5: Which Asbestos Is Asbestos? Dealing With Ambiguous Minerals**
9:00 a.m. - 10:00 a.m.  Room 109
**Moderator:** Eric Rasmussen, Chemistry & Industrial Hygiene, Inc.
**Presenters:** Andrey Korchevskiy, Chemistry & Industrial Hygiene, Inc.; Dan Hernandez, Flatirom Corp.

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**I6: Strategic Partnerships for Reducing Health Risks in the Workplace**
9:00 a.m. - 10:00 a.m.  Room 108B
**Moderator:** Sara Webb, ExxonMobil.
**Presenters:** Vicky Tay, ExxonMobil; Singapore; Cameron Isaacs, Jennifer Sheffer, ExxonMobil.

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**I7: Risk Analysis Using Layer of Protection Analysis (LOPA)**
9:00 a.m. - 10:00 a.m.  Room 105
**Moderator & Presenter:** Kelsey Forde, Parvati Consulting LLC.
**Presenter:** Timothy Stirrup, Parvati Consulting LLC.

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**I8: Leverage Digital EHS Inspection and Asset Management Systems**
9:00 a.m. - 10:00 a.m.  Room 116
**Moderator:** Elizabeth Veld, 3M.
**Presenters:** David Stein, Perry Logan, 3M.

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**I9: Environmental Exposure Assessments for Patients With Hypersensitivity Pneumonitis**
9:00 a.m. - 10:00 a.m.  Room 117
**Moderator:** Michael Krause, Veritox, Inc.
**Presenters:** Coreen Robbins, Karen Michael, Veritox, Inc.

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**I10: IH Perspective in Emergency Response to a Process Plant Fire**
9:00 a.m. - 10:00 a.m.  Room 113A
**Moderator:** Steve Graham, U.S. Army Medcom PHC (Retired).
**Presenters:** Edward Primeau, USCG Atlantic Strike Team; Eugene Satrun, Industrial Hygiene Advisor; Glenn Lamson, OSHA Health Response Team.

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**I11: Using Anthropometrics for Industrial Workplace Design**
9:00 a.m. - 10:00 a.m.  Room 112
**Moderator:** Gary Downey, The Ergonomics Center.
**Presenter:** Ellen Gallo, The Hartford.

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**I12: TLVs: Use, Misuse, and Misunderstandings**
9:00 a.m. - 10:00 a.m.  Room 103
**Moderator:** William Mills, Northern Illinois University.
**Presenters:** Theodore Hogan, Northern Illinois University; Susan Arnold, University of Minnesota.

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**I13: Low-Cost 3-D Printing and Fabrication: Not Low in Fume Emission**
9:00 a.m. - 10:00 a.m.  Room 118
**Moderator:** Wei-Chung Su, University of Texas Health Science Center.
**Presenter:** Jun Wang, University of Oklahoma.

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**I14: Donald E. Cummings Memorial Award Lecture**
9:00 a.m. - 10:00 a.m.  Room 119
**Moderator:** Susan Arnold, University of Minnesota; Gurumurthy Ramachandran, Johnson Hopkins Bloomberg School of Public Health.
**Presenter:** Mark Stenzel, Exposure Assessment Applications, LLC.

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**I15: Days of Our Lives: Practical Applications for the IH Laboratory and their Customers. Part 1: The Storms of Sampling and Analysis**
9:00 a.m. - 10:00 a.m.  Room 104
**Presenters:** Laura Parker, Maxxam Analytics; Cindy Ostrowski, CAO Consulting, LLC.

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Full session descriptions may be found in the mobile app. Events take place at the Pennsylvania Convention Center unless otherwise noted.
Morning Sessions in The Hub
Hall B
9:30 a.m. – 9:55 a.m.
• Submitting a Session Proposal for AIHce EXP 2019, Education in the Learning Zone
• Chair Yoga Session 3, Health and Wellness in the Learning Zone
10:00 a.m. – 10:25 a.m.
• Dos, Don’ts, and Hints for Applying for the CIH Exam, Education in the Learning Zone
• Your Breath as a Meditative Focus to Claim and Reset the Mind, Health and Wellness in the Learning Zone
10:30 a.m. – 10:55 a.m.
• Core Competencies for the Practice of Industrial/Occupational Hygiene, Education in the Learning Zone
• A Healthy Lifestyle - The Components, Health and Wellness in the Learning Zone

J1: Real-Time Sensor Technology: Applications By IH Students
10:15 a.m. - 11:15 a.m. Room 113BC
Moderator: Roger Lewis, Saint Louis University. Presenters: Justin Cathey, Northern Illinois University; Leslie Allsopp, University of North Texas Health Science Center; Brandon Jensen, University of Minnesota.

J2: Protecting African Workers: A Focus on East Africa
10:15 a.m. - 11:15 a.m. Room 117

J3: Should You Be Worried? EHS Professionals in Jail
10:15 a.m. - 11:15 a.m. Room 103
Moderator: Jeanine Prud’homme, New York City Department of Environmental Protection. Presenter: Neil Feldscher, New York City Department of Environmental Protection.

J4: Flash Fire and Explosions Caused by Electrostatic Discharges
10:15 a.m. - 11:15 a.m. Room 108A
Moderator & Presenter: John Wincek, DEKRA Process Safety.

J5: Leadership and The Industrial Hygienist: A Perfect Combination!
10:15 a.m. - 11:15 a.m. Room 118
Moderator & Presenter: James Withers, American Packaging Corporation.

J6: Developments in Beryllium Regulation, Sampling, and Laboratory Analysis
10:15 a.m. - 11:15 a.m. Room 105
Moderator: Nicola Watson, Markes International. Presenters: Maureen Ruskin, OSHA; Michael Brisson, Savannah River National Laboratory; Seuri Taruru, Nevada National Security Site.

J7: Risk Assessment & Management Case Studies: Focus on Legislation and Policy
10:15 a.m. - 11:15 a.m. Room 109
Moderator: David Hicks, Architect of the Capitol. 10:15 a.m. - 10:35 a.m. Pursuing Balance: An Integrated OEHS Internal Auditing Approach
Craig Torres, Gates Corporation. 10:35 a.m. - 10:55 a.m. Case Study on Risk Management Determinations Under TSCA
Matthew Lloyd, US EPA. 10:55 a.m. - 11:15 a.m. Going from Zero to Hero: A Case Study of How One Company Took on Fatigue
Mike Harnett, Six Safety Systems, Canada.

J8: Additive Manufacturing: Workplace Health and Safety, Part 1
10:15 a.m. - 11:15 a.m. Room 108B
Moderator: Kevin Dunn, NIOSH/DSHEFS. Presenters: Srinivas Durgam, GE Additive; Megan Sandy, Dartmouth College.

J9: Notable Confined Spaces: Some Awareness Issues, Part 1
10:15 a.m. - 11:15 a.m. Room 115BC

J10: Topics in Controls: Respirable Crystalline Silica, Fit-Test, and Welding Fume
10:15 a.m. - 11:15 a.m. Room 111
Moderator: Michael Malter, Karl Environmental Group. 10:15 a.m. - 10:35 a.m. Effectively Reduce Employee Exposures to Respirable Crystalline Silica
Natalie Fox, Ramboll.
K1: Case Studies on the Respiratory Deposition of Metal Fume Particles
1:00 p.m. - 2:00 p.m.  Room 105
Moderator: Kirsten Koehler, Johns Hopkins School of Public Health. Presenters: Jun Wang, University of Oklahoma; Ashley Newton, Johns Hopkins School of Public Health; Wei-Chung Su, University of Texas Health Science Center.

K2: Topics in Protective Clothing and Equipment: Focus on Respirators and Gowns
1:00 p.m. - 2:00 p.m.  Room 113BC
Moderator: Diana Peroni, BioMarin Pharmaceutical. 1:00 p.m. - 1:20 p.m.
Effect of Stockpiling Conditions on Respirators and Surgical Gowns
Lee Greenawald, CDC/NIOSH/NPPTL. 1:20 p.m. - 1:40 p.m.
Evaluation of the Performance of Reusable Isolation Gowns
F. Selcun Kilinc-Balci, CDC/NIOSH. 1:40 p.m. - 2:00 p.m.
A Manikin-Based Assessment of Powered Air-Purifying Respirators
Michael Bergman, NIOSH/NPPTL.

K3: Innovations That Ignite Worker Health
1:00 p.m. - 2:00 p.m.  Room 118

K4: Healthcare Worker Occupational Exposure to Hazardous Drugs
1:00 p.m. - 2:00 p.m.  Room 108A
Moderator & Presenter: Christine Roussel, Doylestown Hospital.

K5: Current Issues in Regulatory Policy: Updates on Lead and Legionella
1:00 p.m. - 2:00 p.m.  Room 111
Moderator: Karen Jones, Bureau Veritas North America, Inc. 1:00 p.m. - 1:20 p.m.
HUD’s Lead Safe Housing Programs in a Changing Regulatory Environment
Warren Friedman, U.S. Department of Housing and Urban Development. 1:20 p.m. - 1:40 p.m.
New Cost Benefit Analysis of Policies to Prevent Childhood Lead Exposure
David Jacobs, National Center for Healthy Housing. 1:40 p.m. - 2:00 p.m.
New Standards and Regulation for Legionella Control in Building Water Systems
Zhe Zhang, SanAir Technologies Laboratory.

K6: AIHA Local Sections: Managing, Marketing, Collaborating, & Engaging
1:00 p.m. - 2:00 p.m.  Room 116
Moderator & Presenter: Bernard Fontaine, The Windsor Consulting Group, Inc.

K7: Biosafety and IH in Animal Research
1:00 p.m. - 2:00 p.m.  Room 117
Moderator: Dawn Toon, UMass Amherst. Presenter: James Stubbs, University of Utah.

K8: Additive Manufacturing: Workplace Health and Safety, Part 2
1:00 p.m. - 2:00 p.m.  Room 108B
Moderator: Srinivas Durgam, GE Additive. Presenters: Duane Hammond, NIOSH; Kevin Dunn, NIOSH/DHEFS.

K9: Notable Confined Spaces: Solutions to Improve Outcomes, Part 2
1:00 p.m. - 2:00 p.m.  Room 115BC

K10: Interesting OSHA Health Cases, Part 1
1:00 p.m. - 2:00 p.m.  Room 103
Moderator: Anthony Towey, USDOL/OSHA. Presenters: Catherine Brescia, USDOL/OSHA; Margaret Rawson, USDOL/OSHA NY Regional Office; Dena Stone, USDOL/OSHA Allentown Area Office.

K12: Waterborne Pathogens Mysteries Solved
1:00 p.m. - 2:00 p.m.  Room 109

K13: Mock Trial: Use of Expert IH Testimony in a Wrongful Termination Case, Part 1
1:00 p.m. - 2:00 p.m.  Room 119
Moderator: Kurt Dreger, Lawrence Livermore National Laboratory. Presenters: Robert Kleinerman, Kleinerman & Associates, EHS Consulting, LLC.; Margaret Norman, Law Offices of Margaret Norman, ESQ; Philip Platcow, Astute & Practical Solutions.

1:00 p.m. - 2:00 p.m.  Room 104
Presenter: Warren Merkel, National Institute of Standards and Technology.
L1: Laboratory Considerations for Analysis of Radiologically Contaminated IH Samples  
2:15 p.m. - 3:15 p.m.  Room 113A  
Moderator: Scott Van Etten, EMSL Analytical Inc.  
Presenters: Vincent Daliessio, EMSL Analytical Inc.; Michael Menz, EMSL Analytical Inc.

L2: Nanotechnology Updates: Focus on Nanoparticles  
2:15 p.m. - 3:15 p.m.  Room 113BC  
Moderator: Katherine Serrano, Los Alamos National Laboratory.  
2:15 p.m. - 2:35 p.m.  
Control Banding for Engineered Nanomaterials Case Studies  
Michele Shepard, Colden Corporation.  
2:35 p.m. - 2:55 p.m.  
NIOSH 7402 and the Tsai Diffusion Sampler Methods for Carbon Nanotubes  
Jared Khattak, Colorado State University.  
2:55 p.m. - 3:15 p.m.  
Emissions from Printed Paper and Cell Toxicity Test with Paper Particles  
Nara Shin, Colorado State University.

L3: Emergency Preparedness and Response After Crisis and Catastrophe  
2:15 p.m. - 3:15 p.m.  Room 115BC  
Moderator: Penney Stanch, NASA Johnson Space Center.  
2:15 p.m. - 2:35 p.m.  
Chlorine Exposure During a Biological Decontamination Study  
John Archer, U.S. EPA.  
2:35 p.m. - 2:55 p.m.  
The Flint Water Crisis: Institutional Ethics Considerations  
Steven Neilson, U.S. Department of Energy.  
2:55 p.m. - 3:15 p.m.  
Industrial Hygiene in the Wake of a Catastrophe  
Theodore Rowland, Terracon Consultants, Inc.

L4: A New Silica Control Tool in British Columbia, Canada  
2:15 p.m. - 3:15 p.m.  Room 111  
Moderator: Mona Shum, Aura Health and Safety Corporation, Canada.  
Presenters: Levi Kimble, Aura Health and Safety Corporation, Canada; Hugh Davies, Melanie Gorman-Ng, University of British Columbia, Canada.

L5: Applying ISO 45001 to Manage Your Workplace Ergonomics Program  
2:15 p.m. - 3:15 p.m.  Room 105  
Moderator: Blake McGowan, Humantech.  
Presenter: Walt Rostykus, Humantech, Inc.

L6: Exposure Assessment: Estimating Methods  
2:15 p.m. - 3:15 p.m.  Room 118  
Moderator: Jooyeon Hwang, Western Kentucky University.  
2:15 p.m. - 2:35 p.m.  
US Air Force Exposure Assessment Strategy  
2:35 p.m. - 2:55 p.m.  
Translating Dermal Lead Accumulation into Dose  
Rachel Seymour, Army Public Health Center.  
2:55 p.m. - 3:15 p.m.  
Novel Method for Estimating Dermal Contact with Hand-Applied Cleaning Solutions  
Ryan Lewis, Exponent, Inc.

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Closing General Session

Total Exposure Health: A Revolutionary Way to Think of Exposure and Primary Prevention

3:30 p.m. - 4:30 p.m., Ballroom AB

 Presenter: Col.(ret.) Kirk Phillips, LJB Inc.

Total Exposure Health (TEH) is a bold solution to capture workplace, environmental, and lifestyle exposures to the individual using advances in science, technology, and informatics to help reduce short- and long-term health risks to individuals and to provide clinically relevant information individuals and their providers to prevent disease, enhance human performance. By educating individuals about their exposure profile, TEH will enable individuals and families to make healthy lifestyle choices tailored to their exposure profile as a minimum and also to their adverse genetic proclivity when known.

TEH is a holistic approach to integrating science, technology, informatics, and medicine into interconnected preventive health systems. This emphasis on “Personalized Healthcare” moves industrial hygienists from worker health to exposure sciences for diverse populations capitalizing on the rapidly accelerating advances in sensor technology, genomic sciences, health information technology, and precision medicine to enable new knowledge and understanding to protect and prevent disease, encourage patient/provider interaction, and improve population health and well-being.
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AlHce EXP 2018 will be held in Philadelphia, Pennsylvania – one of America’s most historic cities. Visit the ACGIH® Pavilion (Booth 1839) while you are in Philly and receive huge savings. You’ll find new 2018 editions of the TLVs® and BEIs® book, Guide to Occupational Exposure Values, and the TLVs® and BEIs® with the 7th Edition Documentation CD-ROM. These publications, along with select other ACGIH® Signature Publications will be available at a 20% Cash and Carry discount while supplies last.* Members receive an additional 20% off of the Cash and Carry discount price.**

Other publications will be offered at a special 10% Conference discount. And our Clearance Publications will be offered at drastic discounts. Come early for the best selection!

We will also have information on the unbeatable value of ACGIH® Membership, Upcoming ACGIH® Educational Events, the Sustainable TLV®/BEI® Program, and the ACGIH® General Fund.

* To receive the 20% discount, payment is required at the time of purchase. Books must be taken with you — shipping is not available.
** Membership will be verified at the checkout counter. You may sign up for membership on site and receive the Member Cash and Carry discount. Discounts may not be combined with any other offer, and are only available during the Conference.

Visit us at Booth 1839 to Get Your Copies!

EXPO HOURS:
Monday, May 21
9:00 a.m. – 5:30 p.m.
Tuesday, May 22
9:00 a.m. – 3:00 p.m.
Wednesday, May 23
8:00 a.m. – 1:30 p.m.
All posters are on display in The Hub, Exhibit Hall B.

**Poster Session 1**
**Monday, May 21**
**Author Attend Time**
11:15 a.m. - 12:15 p.m.
**Area:** Professional Posters Zone
**Topics:** Aerosols, Construction, Indoor Environmental Quality/Indoor Air Quality

- 198 - Asbestos Fiber Transport from Facilities into the Community. **Presenter:** Anders Abelmann, Cardno ChemRisk.
- 203 - Respirator Use and Exposures During Road Building and Repair. **Presenter:** Brent Doney, NIOSH/CDC, Respiratory Health Division.
- 206 - Exposures among Workers at an Indium Tin Oxide Production Facility. **Presenter:** Brie Hawley, NIOSH/CDC.
- 209 - Dust Exposure while Using a Woodworking Mobile Dust Collector. **Presenter:** Donna Vosburgh, University of Wisconsin-Whitewater.
- 246 - Exposures during Use of a Powered Abrasive Saw to Cut Asbestos-Containing Cement Pipe. **Presenter:** Joshua Maskrey, Cardno ChemRisk.
- 277 - Solving an Indoor Air Quality Concern: Sampling, Analyses, and IH Expertise. **Presenter:** Amanda Scott, The Children’s Hospital of Philadelphia.
- 292 - Take-home Exposure to Asbestos from Handling Contaminated Clothing. **Presenter:** Jason Lotter, Cardo ChemRisk.
- 332 - Efficiencies of Gloves, Barrier Creams, and Skin Care Products against Metalworking Fluids. **Presenter:** Shih-Wei Tsai, National Taiwan University, Taiwan.
- 446 - Exposure to Residual Polycyclic Aromatic Hydrocarbons (PAH) in Firefighter Vehicles. **Presenter:** Jooyeon Hwang, Western Kentucky University.
- 476 - Chemical Markers of Occupational Exposure to Wood Dust. **Presenter:** Mariella Carriera, Department of Cardiologic, Thoracic and Vascular Sciences, University of Padova.
- 481 - Respirator Service Life Estimation Model for Spraying Pesticides. **Presenter:** Michael Krause, Veritox.
- 499 - Overexposure to Flour Dust in Small to Mid-size Bakeries. **Presenter:** Debra Corbin, SAIF Corporation.

**Poster Session 2**
**Tuesday, May 22**
**Author Attend Time**
11:15 a.m. - 12:15 p.m.
**Area:** Professional Posters Zone
**Topics:** Exposure Assessment Strategies, Sampling and Analysis, Exposure Banding/Occupational Exposure Limits

- 169 - Exposures Related to Riding All-terrain Vehicles (ATVs) with Asbestos-containing Brakes. **Presenter:** Jennifer Ellis, Ramboll Environ, Inc.
- 174 - Asbestos Exposures with the Manipulation of Molded Phenolic Products. **Presenter:** Abigail McEwen, Cardno ChemRisk.

• 670 - Workplace Environmental Exposure Levels (WEEls) for Refrigerants Registered with ASHRAE. Presenter: Ann Parker, University of Cincinnati.

• 679 - Enhanced Darkfield Microscopy and Hyperspectral Mapping for Analysis of Nanoparticulates. Presenter: Adrianne Eastlake, NIOSH/CDC.


• 382 - Exposure to VOCs in Electrosurgical Smoke Resulting from Surgeries. Presenter: Nai Yun Cheng, Institute of Labor, Occupational Safety and Health, Ministry of Labor, Taiwan.

• 433 - Efforts to Reduce Environmental Surface Contamination in Healthcare Settings. Presenter: Shari Solomon, CleanHealth Environmental, LLC.


• 579 - Personal Exposure Assessment Results from Washington State Department of Labor and Industries. Presenter: Todd Schoonover, Washington State Department of Labor & Industries.


• 649 - Back Compressive Forces During Asymmetrical and Symmetrical Lifting Activities. Presenter: John Pentikis, U.S. Army Public Health Center.

• 652 - Recommendations from the FACE Reports on Worker Fatalities in Confined Spaces. Presenter: Kwangseog Ahn, University of Wisconsin-Whitewater.

• 673 - Different Definitions of Peak Exposures in Epidemiological Studies Lead to Different Conclusions. Presenter: Evan Anderson, Ramboll Environ, Inc.


• 681 - The Development and Dissemination of NIOSH Pocket Guide Mobile App. Presenter: Sarah Unthank, NIOSH/CDC.

• 764 - The Interaction of CO2 Exposures for Select Brewery Job Tasks. Presenter: David Huizen, Grand Valley State University.

• 766 - Virulent strains of Legionella in a Public Water Distribution System. Presenter: Jazmin Ricks, Cogency Environmental.

• 869 - Establishing Community Preparedness by Investigating Legionella in the Public Water Distribution System. Presenter: Jazmin Ricks, Cogency Environmental.

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**Poster Session 3**

**Wednesday, May 23**

**Author Attend Time**

11:15 a.m. – 1:15 p.m.

**Area: Professional Posters Zone**

**Topics: Healthcare, Occupational and Environmental Epidemiology, Regulation & Legislation**

• 156 - Perceptions of Workers Regarding Noise in Meat Processing Facilities. Presenter: Chun-Yip Hon, Ryerson University.

• 208 - Safety Solution for Laboratory Facilities. Presenter: Lawrence Meisenzahl, Vortex Hoods, LLC.


• 337 - Assessment of Risk for Safe Handling of Hazardous Drugs. Presenter: Emma Hooks, Barnes-Jewish Hospital.

• 340 - Health Hazard Evaluation of Diesel Exhaust at Two Fire Stations. Presenter: Jessica Li, NIOSH/CDC.

• 363 - Translation Inconsistencies in Published EHS Regulations Worldwide. Presenter: Douglas Strock, Global Language Translations and Consulting, Inc.

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Expo Floor Plan

As of April 6, 2018

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Tuesday, May 22
9:00 a.m. – 3:00 p.m.
Wednesday, May 23
8:00 a.m. – 1:30 p.m.
**Expo Highlights**

**Expo Hours**

- **Monday, May 21 – 9:00 a.m. – 5:30 p.m.**
  - *Expo Only Non-Compete Hours:*
    - 9:30 a.m. – 10:00 a.m., 12:15 p.m. – 1:45 p.m., and 4:00 p.m. – 5:30 p.m.
- **Tuesday, May 22 – 9:00 a.m. – 3:00 p.m.**
  - *Expo Only Non-Compete Hours:*
    - 9:00 a.m. – 10:00 am and 12:15 p.m. – 1:45 p.m.
- **Wednesday, June 7 – 8:00 a.m. – 1:30 p.m.**
  - *Expo Only Non-Compete Hours:*
    - 8:00 a.m. – 9:00 a.m. and 11:15 a.m. – 12:45 p.m.

**Refuel and Recharge Snack Breaks**

**Exhibit Hall A, PCC**

AIHce EXP is thrilled to introduce these great networking events on the Expo floor. Mix, mingle, network, and grab some snacks as you meet exhibitors, visit with colleagues, and learn about new products and services from AIHA and ACGIH. Your conference badge is required to attend these events.

- **Monday, 12:00 p.m. – 2:00 p.m.**
  - *Afternoon Healthy Break –* Healthy snacks will help boost your energy for more education, networking, and the evening’s events!
- **Monday, 4:30 p.m. – 5:30 p.m.**
  - *Expo Hall Networking Reception –* This annual networking tradition gets the night started with some tasty nibbles and a free drink (ticket included in badge materials).
- **Tuesday, 9:00 a.m. – 10:00 a.m.**
  - *Coffee and Pastries –* Start your morning with some coffee and a bagel or pastry. This a great time to chat with exhibitors about products and services that can help improve your workplace.
- **Tuesday, 9:00 a.m. – 10:00 a.m.**
  - *Barista Bar presented by Catalyst –* AIHA’s new Catalyst Community launches at AIHce EXP! Visit Booth 1039 to walk through the system, sign up, and start posting – and grab an espresso to jump start your Tuesday EXPerience! Exclusively in the AIHA Booth!
- **Tuesday, 12:00 p.m. – 2:00 p.m.**
  - *Hank’s Ice Cream Float Bar presented by The Synergist –* Hanks’ Gourmet Beverages is a Philly family business. Enjoy a float featuring one of their 7 famous flavors!
- **Wednesday, 11:30 a.m. – 1:30 p.m.**
  - *Build Your Own Trail Mix –* Fuel your brain for a strong finish to AIHce EXP 2018. What a perfect grab-and-go for your train, drive, or flight home!

**AIHA Booth 1039 Happenings**

**Keynote Book Signing**

- **Monday, May 21 - 12:45 p.m. - 1:15 p.m.**
  - Come meet our keynote speaker, Rich Karlgaard, and have your book signed!

**Learn more about The Hamilton Club**

- **Are you interested in learning about how a strategic alliance between AIHA and your organization could result in a more targeted outreach to our members and event attendees? Stop by the AIHA booth for more information!**

**Welcome to the Catalyst Community!**

- **AIHA’s new online community, The Catalyst, debuts at AIHce EXP 2018.**
- **Stop by the booth for a demonstration, sign up, and begin posting!**
- **On Tuesday, May 22 from 9:00 a.m. – 10:00 a.m., the Catalyst will offer a Barista Bar – grab an espresso to jump start your morning!**

**Recharge and Relax!**

- **Give your devices a recharge at the AIHA Booth 1039.**

**Pathway Passport**

- **Have your Pathway Passport stamped by participating exhibitors?**
- **Drop your completed entry in the box in the AIHA Booth (1039), by noon on Wednesday, May 23. Winning names will be drawn at 12:30 p.m.**
- **The Grand Prize is a trip to AIHce EXP 2019 in Minneapolis, MN. Second Prize is $1,000.**

**New Exhibitor Pavilion**

- **Booths 1509-1533 and 1608-1632**
- **Be sure to stop by to visit these first time AIHce EXP exhibitors who have new and exciting products and services to share! The aisles around these booths are carpeted in red to make them even easier to find!**

**Learning Pavilions**

- **Located behind the AIHA booth (Learning Pavilion 1) and in the 2000 aisle, next to the University Pavilion (Learning Pavilion 2)**
- **Want to hear about the latest and greatest innovations to assist you with solving your workplace problems?**
  - **The Learning Pavilions are the perfect place to stay on top of what is fresh and innovative in our industry.**
  - **Check the schedule and stop by for a variety of informative presentations, followed by short Q&A sessions.**

**Crack the code for prizes by playing CODENAME: IH!**

- **Join us for a lively scavenger hunt to enter drawings for our many prizes. Show off your sleuthing skills locating and scanning QR codes around the convention center. More details may be found in the AIHce EXP 2018 mobile app.**

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Have your Pathway Passport stamped by participating exhibitors, and drop your completed entry in the box in the AIHA Booth (Booth 1039) by noon on Wednesday, May 23. Winning names will be drawn at 12:30 p.m. The Grand Prize is a round trip and registration for AIHce EXP 2019 in Minneapolis, Minnesota. Second Prize is $1,000.

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