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FINAL PROGRAM

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**General Information**

Conference events are held at the Music City Center (MCC) unless otherwise noted. This includes education sessions, the Expo, Pop-ups and Health & Wellness education, Speaker Ready Room, and the Career Advantage Fair. Volunteer groups and committee meetings and social events will be held at the Omni Nashville as noted. A full listing of events may be found in the Schedule-at-a-Glance in the Final Program and on the AIHce EXP 2022 Mobile App/Virtual Platform.

**Badges**

**Registration Lobby, 2nd Floor**

Friday, May 20 ............................................5:00 p.m.–7:00 p.m.
Saturday, May 21 ....................................6:30 a.m.–5:30 p.m.
Sunday, May 22 .......................................6:30 p.m.–7:00 p.m.
Monday, May 23 .......................................7:00 a.m.–5:30 p.m.
Tuesday, May 24 .....................................7:00 a.m.–5:00 p.m.
Wednesday, May 25 .........................7:30 a.m.–4:00 p.m.
Thursday, May 26 ...............................6:30 a.m.–10:00 a.m.

In-person participants MUST be COVID-cleared to enter the MCC to pick up their name badge credentials and MUST wear a name badge to be admitted to all AIHce EXP sessions and events, including social activities. AIHF activities and selected social activities may also require a ticket. Once tickets are purchased, fees are nonrefundable; however, ticket exchanges may be permitted pending availability.

**Behavior Standards**

AIHce EXP is a professional conference. AIHA reserves the right to take any action deemed necessary and appropriate, including immediate removal from the meeting without warning or refund, in response to any incident of unacceptable behavior, and AIHA reserves the right to prohibit attendance at any future meeting. Examples of unacceptable behavior include, but are not limited to:

- Harassment, intimidation, or discrimination in any form
- Physical or verbal abuse of any attendee, speaker, volunteer, exhibitors, AIHA staff member, service provider, or other meeting guest
- Verbal comments related to gender, sexual orientation, disability, physical appearance, body size, race, religion, national origin, inappropriate use of nudity and/or sexual images in public spaces or in presentations, or threatening or stalking any attendee, speaker, volunteer, exhibitor, AIHA staff member, service provider, or other meeting guest

Virtual participants agree additionally they will not record, copy, or take screen shots of Q&A or any chat room activities taking place in the Virtual AIHce EXP environment.

**CIIH Requirements**

For detailed information about CIIH requirements, contact the Board for Global EHS Credentialing (BGC) directly or visit the BGC Booth 1406 while on-site.

**Children**

Children and young adults 18 and under are not permitted at any AIHce EXP 2022 events (including courses, sessions, socials, or in the Expo).

**CASELLA**

Lanyards sponsored by Casella

**Dräger**

N95 masks provided by Draeger – Limit 3 per person

Should you lose or misplace your badge, we are happy to reprint it for you. After one initial reprint, there is a $5.00 charge for a lost badge or ticket re-placement.

AIHA has zero-tolerance for any form of discrimination or harassment, including, but not limited to, sexual harassment by participants or staff at conferences. If you experience harassment or hear of any incidents of unacceptable behavior, AIHA asks that you email Larry Sloan, CEO or Franky Spangler, Director, Human Resources, or call 703-849-8888 so we can take the appropriate action. For more information on AIHA’s Member Code of Conduct and Reporting Form, visit www.aiha.org/membership and search AIHA Code of Conduct Acknowledgement.
Education Credits

AIHce EXP 2022 attendees can earn up to 18 contact hours by attending one session in every time block, Monday through Wednesday. Additional CM contact hours may be earned from mid-June through December 31, 2022, by viewing sessions OnDemand.

AIHce EXP OnDemand recordings bring conference sessions right to your doorstep. All full conference registrations receive free access; one-day registrants receive free access to the OnDemand sessions recorded on the day of their registration. Recordings will be available mid-June through December 31, 2022, and you will receive an email with access and credit instructions once the recordings are finalized.

Emergencies, First Aid, and Assistance

The safety and security of on-site attendees and staff is the first priority of AIHA and the MCC. If a medical emergency occurs in the MCC, contact the Music City Center Security Command Center at 615-401-1300 or pick up any black house phone, which automatically connects to the Command Center. We respectfully request that you do not call 911 directly.

Saturday, May 21 through Thursday, May 26 – A first aid station staffed daily by an EMT is located outside Exhibit Hall B on Level 3.

Going Green!

To help reduce waste and our footprint on the environment, AIHA and our suppliers have partnered on the following initiatives:

- Transitioning the printed Advance Program and Final Program to fully digital, eliminating paper product, fuel, and emissions used to transport programs via mail
- Reducing the final program page count by listing session descriptions and exhibitor company descriptions online
- Ticketless registration
- Digital Pathway Passport game
- Digital signage outside meeting rooms
- Badges made from recycled materials, which can also be recycled
- Signs made of eco-board
- Recycle stations for paper, cans and bottles, and other items located throughout the MCC meeting space
- MCC is a LEED Gold Certified Facility with initiatives that prioritize energy conservation, water management, waste reduction, and a green roof
- Food and beverages at the MCC are made with regionally and locally farmed products through their Pick Tennessee Products partnership

To help us “green” the conference, we encourage you to:

- Go digital (rather than print). Download to your computer any presentations and handouts and take notes digitally
- Consider donating to a carbon offset program of your choice (or your company’s) to balance your AIHce carbon footprint
- Use public transportation or ride share
- Recycle your paper, plastic, and glass in the receptacles provided throughout the convention center
- Bring a reusable water bottle to refill at water stations throughout the convention center

Disclaimer

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

**Evaluations**

PDC and education session evaluations can be accessed via the AIHce EXP mobile app/virtual platform. Your feedback is appreciated and will be used to improve AIHce EXP.

All participants will receive a final conference evaluation via email on Thursday, May 26.

**Expo**

**Exhibit Halls A and B**

Monday ........................................................9:00 a.m.–5:30 p.m.
Tuesday ........................................................9:00 a.m.–3:30 p.m.
Wednesday ..................................................9:00 a.m.–1:00 p.m.

**Final Program**

Descriptions of individual sessions may be found in the AIHce EXP 2022 mobile app/virtual platform.

**Lost and Found**

Registration Lobby, 2nd Floor

Lost and found items may be taken to/requested from the Information Desk located in the Registration Lobby on the 2nd floor. AIHce will turn items into MCC security each evening.

**Mother’s Room**

The MCC offers two suites for nursing mothers: one on level 1 around the corner from Meeting Room 101 and one on level 3 outside Hall D.

**Proof of Attendance and PDC Completion**

Transcripts will be updated no later than June 24, 2022. For the main conference, in-person attendees will receive a transcript update indicating their verified participation for up to 18 contact hours (not verified by individual session); virtual attendees will receive a transcript update indicating their verified participation in each virtual session. For each PDC, in-person and virtual attendees will receive a transcript update indicating the total number of contact hours for that specific PDC.

**OnDemand**

AIHce EXP OnDemand is the package of session recordings included with full conference registrations (one-day registrations receive OnDemand for that day’s sessions only). Sessions scheduled to be part of the OnDemand package are noted with 🎦 in the Final Program but are subject to change. Recordings will be available in mid-June through December 31, 2022. Credit is available for viewing the recordings. Once available, you will receive an email with access and detailed credit instructions.

**Speaker Ready Room**

**Meeting Room 201 A**

Schedule:
Friday, May 20 ............................................. 5:15 p.m.–7:00 p.m.
Saturday–Sunday, May 21–22 ............... 7:00 a.m.–5:30 p.m.
Monday, May 23 ......................................... 8:00 a.m.–4:00 p.m.
Tuesday, May 24 ......................................... 7:00 a.m.–5:15 p.m.
Wednesday, May 25 ................................. 8:00 a.m.–3:00 p.m.
Thursday, May 26 ...................................... 7:00 a.m.–5:00 p.m.

Check-in is mandatory at least 60 minutes prior to the start of the session.

**WIFI**

Wireless Internet access is available throughout the MCC.
- Network: AIHce2022
- Passcode: iamIH2022

**Schedule Changes**

The AIHce EXP 2022 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/virtual platform.
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First-Timers’ Meet and Greet
Monday, May 23 | 6:30 a.m.–7:30 a.m.
Omni, Legends Ballroom D
Network, get tips from seasoned pros, and plot your conference activities at the First-Timers’ Meet and Greet!

Sponsored by

Nexus Lounge for Students and Early Career Professionals
Monday, May 23 | 10:00 a.m.–4:30 p.m.
Tuesday, May 24 | 8:00 a.m.–5:30 p.m.
Wednesday, May 25 | 8:00 a.m.–3:30 p.m.
Meeting Room 208 A
The Nexus Lounge is your go-to destination to network, recharge, and meet respected leaders in the OEHS profession. Enjoy our “Lessons in Leadership” series featuring opening keynote, Capt. Chris Cassidy, and closing keynote, James Frederick, AIHA award winners, and other OEHS leaders.

36th Annual AIHF Fun Run/Walk
Tuesday, May 24 | 6:30 a.m.–8:00 a.m.
Lace up your shoes and get ready to run 5K or walk 2K in support of future OEHS professionals through your donation to the AIH Foundation. Sleep-in donations are also welcome!
All in-person participants (individual runners, team runners, and sleep-in entries) must check-in at the Fun Run Desk (2nd Floor, MCC). Hours: Sunday, 12:00 p.m.–5:00 p.m. and Monday, 8:00 a.m.–5:00 p.m. Shuttles for the Fun Run course depart the MCC beginning at 6:00 a.m. Tuesday.

Sponsored by

Expo Hall Networking Reception
Monday, May 23 | 4:30 p.m.–5:30 p.m.
Exhibit Halls A and B
Link up with friends and start your first night right with this annual networking tradition! Hors d’oeuvres will be served, and in-person attendees will receive one drink ticket with your registration.

Health & Wellness Activities
Monday, May 23–Wednesday, May 25
Times noted throughout program
Behind the main escalator at the 5th Avenue entrance
Take some time for self-care with daily morning yoga and interactive, 25-minute sessions on staying healthy, calming your mind, and staying fit.

Namaste With AIHA (yoga)
Monday, May 23 | 6:30 a.m.–7:15 a.m.
Tuesday, May 24 | 6:00 p.m.–6:45 p.m.
Wednesday, May 25 | 6:30 a.m.–7:15 a.m.
Omni, Music Row 2
Mats and blocks provided.

Pop-Up Education Sessions
Monday, May 23–Wednesday, May 25
Times noted throughout program
Under the grand staircase on Level 1 across from Room 102
These interactive, 25-minute sessions deliver timely information on issues affecting OEHS professionals today.
Special Events

Learning Pavilions
Monday, May 23–Wednesday, May 25
Times noted throughout program
Show Office B, Level 3M outside Exhibit Hall B
Looking for even more educational content? Grab a refreshment and join us for these sponsored sessions addressing timely topics within OEHS.

Innovation Stations
Monday, May 23–Wednesday, May 25
Times noted throughout program
Exhibit Hall, Aisle 400
Bring new innovations back to your team with these short, impactful 25-minute presentations from our exhibitor partners. You’ll learn about new equipment, instrumentation, technology, services, and more!

Main Stage Presentations
Monday, May 23–Wednesday, May 25
Times noted on pages 23, 34, and 46.
Exhibit Hall, AIHA Booth 925
AIHA highlights topics of interest to OEHS professionals including career advancement, effective communication, getting published, and Association initiatives such as Commit to CARE, government relations, grand challenges, and more.

Pathway Passport Game
This year’s Pathway Passport game is built right into the AIHce EXP mobile app. Virtual players take part by answering questions and completing missions in the app. On-site players take part by visiting each participating sponsors’ booth and scanning a page within the app. When the game ends at 12:00 p.m. CT on Wednesday, May 25, attendees who have visited every participating booth will be awarded an additional 1,000 points. Winners will be announced that afternoon. The top four on-site players and top virtual player will receive $500 American Express gift cards!

The Pathway Passport leaderboard will be available on the app during the conference. Keep an eye on it to gauge your progress and track your competition, but beware: scores can change dramatically when completion bonuses are added.

*Only attendees with full conference badges can qualify for prizes. AIHA staff and exhibitors are not eligible.

Pathway Passport Sponsors

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2022 AIHA Fellows

The AIHA Fellow designation recognizes AIHA members in good standing with 15 years of continuous Full membership who have made recognized contributions to industrial hygiene or related disciplines, either through research, leadership, publications, education, or service to AIHA. Fellows are nominated by an AIHA local section, special interest group, committee, or peers. The Fellow designation is limited to no more than five percent of the membership.

Shannon H. Gaffney, PhD, MHS, CIH, FAIHA
Nominated by Anders Abelmann, MS, PhD, CIH, Dana Holins, MPH, CIH, and Jennifer Sahmel, MPH, CIH, CSP, FAIHA

Shannon Gaffney has devoted her professional career to the field of occupational and environmental health and safety. Her experience and expertise include evaluating various aspects of community and worker health. As a principal investigator with Cardno ChemRisk, Gaffney has designed and executed several comprehensive research studies focused on evaluating current or historical worker exposures. She has also evaluated methods for occupational exposure limit development for several chemicals and reconstructed worker and community exposures in a variety of settings and industries. Her breadth and depth of technical skills is impressive, both in terms of evaluating chemical exposures and bigger-picture methodological research. Notably, her range involves both chemical and physical hazards, and her collaborators include peers in private industry, academia, and other fields.

Kathleen S. Murphy, CIH, FAIHA
Nominated by Jennifer Sahmel, MPH, CIH, CSP, FAIHA, on behalf of the Fellows Special Interest Group

Kathleen Murphy, the director of Global Regulatory Affairs at Sherwin Williams in Cleveland, Ohio, has been an AIHA member since 1998. A graduate of Case Western Reserve University, Murphy has professional experience in business, government, and consulting. Prior to joining Sherwin Williams, Murphy brought her experience to national organizations and global corporations such as OSHA, PolyOne, ExxonMobil, and Honeywell. Her leadership and strategic vision have been instrumental to guiding AIHA’s continued evolution in inclusive, modern, forward-thinking ways that expand the Association’s reach beyond industrial hygiene. She was president of AIHA’s Board of Directors from 2019 to 2020 and has also served on the American Industrial Hygiene Foundation Board of Trustees, the AIHA Finance Committee, the Product Stewardship Society, the Analytical Accreditation Board, the Standards Advisory Panel, several AIHA local sections, and the International Strategy Task Force (as Board Liaison).

Thomas Peters, PhD, CIH, FAIHA
Nominated by Kent A. Candee, MS, CIH, CSP, ARM, CPCU, on behalf of the AIHA Iowa/Illinois Local Section

Peters’ career has included evaluating real-time aerosol measurement devices, investigating turbulence effects on coarse filters, analyzing size selectors used in chemical speciation samplers, and developing aerosol generators for use in the U.S. Environmental Protection Agency’s human exposure facilities. During his time with the EPA, he contributed to the development of the agency’s National Ambient Air Quality Standard for particulate matter under 2.5 micrometers in diameter (PM2.5). In the process of creating the standard, he was responsible for developing and testing PM2.5 sampling hardware, conducting field tests, and drafting portions of the U.S. Code of Federal Regulations. Peters also collaborated in the development of novel methods to assess the spatial, temporal, and compositional variability in atmospheric particulate matter in further EPA-funded work. His key role in this work has been to develop and standardize low-cost passive sampling methods with analysis by computer-controlled scanning electron microscopy to determine concentrations of coarse particulates and their compositional makeups.
Philip Platcow, CIH, BS, MS, FAIHA
Nominated by Bart Ellingsen, CIH, on behalf of the AIHA New England Local Section

As senior vice president of health and safety at The Vertex Companies, Platcow leads monthly health and safety webinars open to all his Vertex colleagues, which cover subjects such as industrial hygiene and safety and on-air monitoring practices and instruments. Platcow also conducts in-house Hazardous Waste Operations and Emergency Response (HAZWOPER) refreshers, respiratory protection seminars, and industrial hygiene exposure assessments, to ensure the highest standards of learning and ultimate performance. He has teamed up with The Vertex Companies’ president and chief operating officer for periodic recorded messages, health and safety webinars, and briefings. Platcow also understands his role as requiring him to excel in explaining health topics, including those related SARS-CoV-2, to his company. Thanks to Platcow’s ability to teach technical subjects in language accessible to non-experts, his colleagues routinely say that they consider The Vertex Companies to be a trusted source for news and information on SARS-CoV-2.

This award, the highest tribute paid to an AIHA member, recognizes distinguished and exemplary service in the advancement of the OEHS profession and the unique technical and professional contributions made in the support of AIHA’s mission and vision.

Alice Hamilton Award for Social Responsibility
Pamela R. D. Williams, MS, ScD, CIH
Nominated by Alan Rossner, PhD, CIH, FAIHA

Williams’ efforts with the Society for Risk Analysis and AIHA’s Risk Committee have brought a cross disciplinary element (along with others) to AIHA and is regarded as high quality and influential work. However, her work involving low and middle-income countries defines high impact and follows in the footsteps of Alice Hamilton. Land-based pollution from a variety of industries results in significant adverse public and occupational health outcomes and may affect the long-term economic growth of developing countries. Pamela’s application of risk analysis approaches to these personal and community exposures allows for an effective decision-making process.

This award distinguishes individuals who recognized and addressed the diverse needs of the workforce by developing and advancing the practice of social welfare and responsibility through public service, community service, and non-traditional social reform, thereby making a major impact on, and improvement of, public welfare.
The Donald E. Cummings Memorial Award for Outstanding OEHS Practice
Howard B. Spielman, CIH, CSP, SMS, REHS (ret), FAIHA
Nominated by Joel I. Berman, CIH, CSP; Kathy S. Jones, CIH; and Mary Anne Messiha, MPH, CIH, CSP, CPH

Spielman, who started Health Science Associates (HSA) in 1970, has been a mentor a multitude of people who have become CIHs and have had important careers in industrial hygiene. He has continued to play an active role with AIHA (both National and local sections). He was also the founder, founding President, and served additional terms as President of the California Industrial Hygiene Council (CIHC), a preeminent leader within National and other State and Local sections. CIHC, with Spielman as a consistent board member through the years, has promoted the field of industrial hygiene within the legislative process, working with Cal/OSHA, as well as servicing and assisting the varied clients of HSA, which include manufacturers, commercial building owners, construction firms, and educational organizations in adopting, developing, servicing, improving, and promoting industrial hygiene programs.

This award recognizes individuals who make outstanding contributions to the knowledge and practice of the OEHS profession through demonstrating practical application of OEHS knowledge, advancing the practice of Total Worker Health, expanding the profession through active collaboration via alliances and partnerships, and creating tools applicable beyond the OEHS profession.

The Edward J. Baier Technical Achievement Award
Charles “Gus” Manning, PhD, CIH, FAIHA
Nominated by Richard Mark O’Mara MS, CIH, CIHC, FAIHA

Manning did not invent the passive dosimeter badge, but with the company he founded, Assay Technology, he has delivered more IH passive sampling solutions to our field of science than any other individual. Throughout his more than 40-year career in industrial hygiene, he has authored and presented many technical papers and lectures on his area of expertise. He has served on several AIHA Committees as both a member and as a leader. He also has served on other related organizations as both a member and a leader. He seemingly has never learned to say no when asked for help on a project.

This award recognizes an individual or individuals whose technical accomplishments have made substantial, leading-edge contributions to the field of OEHS through technical expertise, innovation, research, scientific advancements, and interaction with or influence on other scientific disciplines.

The Kusnetz Award for Outstanding Achievement by an Early Career Professional
Beauregard M. Middaugh, PhD, MS, CIH, CSP
Nominated by Neil Zimmerman, PhD, PE, CIH, FAIHA

Known for a fantastic work ethic, Middaugh not only was a full-time student earning two BS, an MS, and PhD degrees, he was also the EHS Specialist at a large, regional construction company from his sophomore year through the completion of his PhD, rising to Corporate EHS Specialist during his tenure. His accolades include awards and scholarships. During this time, he was awarded 13 research, service, and recognition awards at campus, regional, and national levels including the National Safety Council’s prestigious Rising Star of Safety award as one of the nationwide, top 40 safety and health professionals under the age of 40 in 2010. He also received eight scholarship awards, including the two most prestigious national industrial hygiene student awards: the 3M Industrial Hygiene Graduate Scholarship Award and the American Industrial Hygiene Foundation Scholarship. More recently, he was recognized by his current employer with a Dedicated Service Award in 2017, and he was the recipient of the Purdue University School of Health Sciences Outstanding Young Alumni Award in 2020.

This award honors an industrial hygienist under the age of 40 and currently employed in the private sector who shows promise for leadership in the profession. The Kusnetz Award is sponsored by Florence Kusnetz.
AIHA® Volunteer Groups Named Awards

**Lila Albin Award**
Since 1997, the AIHA Indoor Environmental Quality Committee has recognized a peer reviewed article in the Journal of Occupational and Environmental Health. The article must: (a) provide practical information and expand the knowledge base of IEQ professionals; (b) address a critical IEQ issue; and (c) present the topic clearly and engagingly. The award goes to Jeff Wagner, Tamara L. Sparks, Shelly Miller, Wenhao Chen, Janet M. Macher, and Jed M. Waldman for the article, *Modeling the Impacts of Physical Distancing and Other Exposure Determinants on Aerosol Transmission*, published in the Journal of Occupational and Environmental Hygiene, volume 18, 2021, issue 10-11, pages 405-509, published online 13 September 2021.

**Rachel Carson Award**
The AIHA Environmental Issues Committee awards this honor in recognition of their environmental advocacy in the spirit of Rachel Carson. This award is bestowed upon an environmental health and safety (EH&S) professional who has attained outstanding success and distinction in their environmental and industrial health and safety business, profession, or life’s work. This year’s recipient is Timothy Paz, CIH.

**Chaffin Award**
By encouraging conference participation and recognizing excellence in the field of ergonomics, the AIHA Ergonomics Committee presents the Chaffin Award to the best ergonomic-related technical session at AIHce EXP. Established in 2008, the award honors Dr. Donald B. Chaffin’s many contributions to the field of ergonomics and to AIHA. This year’s recipient is Ryan Butler, CIH, CSP for Whole-Body Vibration Exposure Onboard Coast Guard Small Boats.

**Birkner Leadership Award**
The AIHA Leadership and Management Committee presents this award to honor the legacy of Ruth McIntyre-Birkner and Larry Birkner and is proudly awarded to an individual exemplifying extraordinary leadership and management. This year’s recipient is Bernard Fontaine, Jr., CIH, CSP, FAIHA.

**Fellows SIG Mid-Year Career Award**
The Fellows SIG awards the Fellows SIG Mid-Year Career Professionals Award to recognize an industrial hygienist with 10 to 25 years of industrial hygiene work experience who exhibits outstanding leadership and/or technical capabilities, has worked as a volunteer for AIHA committees, project task forces and/or SIGs, and has exhibited a commitment to contribute to the industrial hygiene profession throughout their career. This year’s recipient is Michael D. Larranaga, PhD, CIH, PE, FAIHA.

**Rochelle Crew Memorial Award**
This award is given by the AIHA Construction Committee to honor the memory of Rochelle Crew, a long-time construction safety PDC presenter and former member of the committee. The award is given to the best construction-related paper, technical session, or PDC presentation at the previous year’s AIHce. This year’s recipient is Anthony Oliveri, CIH for *Lessons Learned From Fatality Assessment and Control Evaluations (FACE) Investigations in Michigan*. 
AIHA® Volunteer Groups Named Awards

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 recipient of the best student poster on biosafety or microbiology at AIHce EXP.

Cannabis Industry Health and Safety Best Student Poster
This award is presented by the AIHA Cannabis Industry Health and Safety Committee to the best student poster at AIHce that focuses on the OEHS aspects of this industry.

Health and Safety Virtual Exhibit of the Year Award
The Health and Safety Virtual Exhibit of the Year Award acknowledges the power of an instructive, visually appealing, virtual exhibit to tell a story about occupational and environmental health and safety issues. Through this award, the AIHA Museum and Cultural Heritage Working Group seeks to encourage others to identify or develop other health and safety-related virtual exhibits. This year’s recipient is Cornell University School of Industrial Labor and Relations for their compelling exhibit “The 1911 Triangle Factory Fire”.

Donna Doganiero Award
The AIHA Safety Committee presents this award to the presenter of the best safety-related crossover education session at AIHce EXP. The award honors a truly outstanding individual whose achievements and vision continue to move the field of industrial hygiene and safety forward, Donna Doganiero, CIH, FAIHA. This year’s recipient is Steve Eversmeyer, CIH, CSP for FR Clothing Selection.

OEHS Career Professional Award
This award is presented to an individual or individuals (up to two) who have made significant contributions to OEHS above and beyond their typical job responsibilities. This can include contributions in student development, mentoring, or early career guidance. Nominees must have demonstrated a commitment to promoting the profession of OEHS, advancing the profession among students and early-career professionals. This award is presented by the AIHA Academic Advisory Group and the AIHA Student and Early Career Professionals Committee. This year’s recipient is Georgi Popov, PhD, QEP, CSP, ARM, SMS, CMC, FAIHA.

John A. Leonowich Award
This award is given by the AIHA Non-Ionizing Radiation Committee for educational excellence in nonionizing radiation, honors students who are actively pursuing NIR initiatives through research or education, and recognizes the achievements made by current students in advancing both theirs and the profession’s understanding of nonionizing radiation.

The Randy Ogle/Paul Baron Award
This award is presented by the AIHA Nano and Advanced Materials Working Group to recognize excellence in a peer-reviewed article published in the Journal of Occupational and Environmental Health (JOEH), which best advances knowledge and practice in our field. This award honors the work of Mr. Randy Ogle and Dr. Paul Baron who led the way in providing the management tools and data that laid the groundwork for future generations of EHS professionals working in the field of Nano Technology and Advanced Materials. The award goes to Gavin H. West, Fatima I. Castaneda, Leonard G. Burrelli, Daniel Dresser, Michael R. Cooper, Sara B. Brooks, and Bruce E. Lippy for the article Occupational Exposure Risk During Spraying of Biocidal Paint Containing Silver Nanoparticles published in the Journal of Occupational and Environmental Hygiene, volume 18, 2021, issue 6, pages 237-249, published online 14 May 2021.
Cultural Heritage Health and Safety Advocate Award

The 2021 inaugural award is presented by the AIHA Museum and Cultural Heritage Working Group to Eryl P. Wentworth, former Executive Director of the American Institute for Conservation (AIC), whose significant work transformed the occupational health and safety landscape for the cultural heritage industry. Her emphasis on allied professional collaborations, including her 2016 proposal to establish a partnership between AIHA and AIC, led to the creation of the Museum and Cultural Heritage Industry Working Group. Her organizational support for the 30+ year old AIC Safety and Health Network resulted in AIC being a major resource for health and safety training, guidelines, and workshops for its members, many of whom are in private practice or small businesses. Ms. Wentworth ensured that AIHA senior leadership would be included on the Advisory Council and Steering Committee of the new 2020 Held in Trust Initiative between AIC’s Foundation and the National Endowment for the Humanities, thus guaranteeing the inclusion of safety and health into all aspects of the conservation and cultural heritage professions.

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 given to the best student poster at AIHce that focuses on communication and training methods.

David L. Swift Award Memorial Award

This award honors the memory of Dr. David L. Swift 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.

Joselito Ignacio OEHS Emergency Preparedness and Response Award

The Incident Preparedness and Response Working Group will evaluate posters and education sessions based on a scoring system including presentation, applicability to emergency response, and originality. Select workgroup members will review the conference agenda and identify candidate posters or educational sessions. The review workgroup scores criteria for each domain based on applicability to OEHS-related preparedness and response efforts.

Upton Sinclair Lecture Award

The Upton Sinclair Memorial Lecture on EHS Investigative Reporting is hosted by the AIHA Social Concerns Committee. This year’s lecture, Hot Day: How Data and Documents Shined a Light on Heat’s Mounting Death Toll on Workers in the US, will be delivered by Kristen Lombardi, Columbia Journalism School at AIHce EXP on Monday, May 23 at 3:15 p.m. CT. This lecture will walk conference attendees through the “Hot Days” investigation, outlining the main findings and providing a window into the labor-intensive reporting process.

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 is presented to William G. Lindsley, Donald H. Beezhold, Jayme Coyle, Raymond C. Derk, Francoise M. Blachere, Theresa Boots, Jeffrey S. Reynolds, Walter G. McKinney, Erik Sinsel, and John D. Noti for the article Efficacy of Universal Masking for Source Control and Personal Protection from Simulated Cough and Exhaled Aerosols in a Room published in the Journal of Occupational and Environmental Hygiene, volume 18, 2021, issue 8, pages 409-422, published online: 21 July 2021.
Aileen Yankowski Outstanding Leader of the Year Award

The Aileen Yankowski Outstanding Leader of the Year Award, presented by the AIHA Women in IH Committee, is awarded annually to an individual who, through volunteerism, supports the career development of professional women, promotes leadership skills and disseminates critical information relevant to women working in industrial hygiene. This year’s recipient is Nancy E. Wilk, HBSc, MHSc, CIH.

2021 AIHA Bestseller

This award is presented to the editor(s) of the publication that sold the most copies during the year. The 2021 best seller is presented to Carter B. Ficklen, III, CIH, CSP for Industrial Hygiene Reference and Study Guide, 4th edition.

2021 Critics’ Choice Award

The Critic’s Choice Award honors a publication completed in 2021. The Content Portfolio Advisory Group (CPAG) evaluates all publications and selects one to recognize for their impact on the profession, originality, and quality of writing. This year’s recipient is The Role of the Industrial Hygienist in a Pandemic, 2nd edition, edited by Roger D. Lewis, PhD, CIH, FAIHA and Robert D. Strode, MS, CIH, FAIHA.

AIHA Outstanding Volunteer Groups (2021)

Cannabis Industry Health and Safety Committee—Chair Mary Malendia Maccree, BS, CIH, CSP; Vice Chair Sylvia Shiner Fontes, CIH; Secretary Angela Wheeler, CIH, CRSP, SDS Author; and Past Chair Robert S. Kleinerman, CIH. AIHA Orange Color Council Committee.

Confined Spaces Committee—Chair Caroline Switzer, CIH, CSP; Vice Chair Janet L. Keyes, CIH, FAIHA; Secretary Kenneth C. Eck, CIH, CSP, CFPS, DABFE, FACFE; and Past Chair Bonnie J. Lockhart, CIH. AIHA Green Color Council Committee.

Construction Committee—Chair Daniel T. Woody, CIH; Vice Chair Shelley R. Shortes, CIH, CSP; and Secretary Shelley R. Shortes, CIH, CSP; and Past Chair Janet L. Keyes, CIH, FAIHA. AIHA Green Color Council Committee.

Ergonomics Committee—Chair Penney M. Stanch, CIH, CSP, CPE; Vice Chair Emily Macomber Driggers, ASP, AEP; Secretary Albert W. Moore, CIH, CPE; and Past Chair Gary Downey. AIHA Yellow Color Council Committee.

Fellow SIGs—Chair Jennifer Sahmel, PhD, CIH, CSP, FAIHA; Vice Chair Martin L. Jones, Ph.D., CIH, CSP, FAIHA; Secretary David S. Abrams, CIH, FAIHA; and Past Chair John “Jack” P. Springfield, CIH, CSP, MS, FAIHA. AIHA Teal Color Council Committee.

Incident Preparedness and Response Working Group—Chair Patrick Sean Wallace, CIH; Vice Chair Eugene A. Satrun, CIH, CSP, FAIHA; Secretary Beth A. Osterink, MPH, REHS, CIH, CSP; and Past Chair Laura H. Weems, CIH, CSP, CHMM. AIHA Orange Color Council Committee.

International Affairs Committee—Chair Steven Verpaele; Vice Chair Laurence Svirchev, MA, BSc, CIH; Steven Verpaele; Secretary Maharshi P. Mehta, CIH, CSP, FAIHA; Past Chair Lydia N. Renton, B. Sc., CIH, ROH, FAIHA. AIHA Yellow Color Council Committee.

AIHA® Volunteer Groups Named Awards
**Laboratory Health and Safety Committee**—Chair Marian Lee Poore; Vice Chair David A. Acker, CIH; Secretary Ashwani Shukla, CIH, CSP, SMS; Secretary-Elect Angela Dartt, Ph.D., CIH; Past Chair Garth Graham, CIH. AIHA Blue Color Council Committee.

**Leadership and Management Committee**—Chair Celia A. Booth, CIH, CSP; Vice Chair Eltaneice V. Bolden, CIH, CHMM; Secretary Steven D. Jahn, MBA, CIH, FAIHA; Past Chair Bradley W. Rodgers, MS, CIH, CSP. AIHA Violet Color Council Committee.

**Mentoring and Professional Development Committee**—Chair Justin D. Hoover, MS, CSP; Vice Chair Anthony Uliano, Jr., CIH, CHMM; Past Chair Melanie D. Nembhard, CIH. AIHA Violet Color Council Committee.

**Museum and Cultural Heritage Working Group**—Chair Kathryn A. Makos, MPH, CIH; Vice Chair Jeffrey R. Sotek, CIH, CSP, PE; Secretary Ralph A. Froehlich, MS, CIH, CSP, QEP, FAIHA; Secretary-Elect Carlis Brown, MSPH, CIH. AIHA Blue Color Council Committee.

**Opioids Working Group**—Chair Penelope E. Pietrowski, CIH; Past Chair Peter B. Harnett, MS, MPH, CIH, CSP, FAIHA. AIHA Orange Color Council Committee.

**Protective Clothing and Equipment Committee**—Chair John J. Hill, CIH, CSP; Vice Chair Paul E. Allen, CIH, CSP, ARM CSP; Secretary Kevin Joseph Mahoney, Jr., CIH, CSP; Secretary-Elect Christopher C. Brennan; and Past Chair Cheryl K. S. DuBois, CIH. AIHA Red Color Council Committee.

**Sampling and Laboratory Analysis Committee**—Chair Dru A. Burns, MSC; Vice Chair Derek J. Popp; Secretary Anand Ranpara; Past Chair Evan Floyd, PhD, CIH. AIHA Blue Color Council Committee.

**Stewardship and Sustainability Committee**—Chair Alison M. Gauthier; Vice Chair Mary O’Reilly, CIH, PhD, CPE, FAIHA; Past Chair Julie M. Panko, CIH, FAIHA. AIHA Yellow Color Council Committee.

**Teen Workplace Health and Safety Committee**—Chair Brian Czarnecki, CHST, CSP, CIH; Vice Chair Michaela A. Hall, MPH; Secretary Robert James Rataj; Past Chair Jennifer L. Macalchan. AIHA Violet Color Council Committee.

**Women in IH (WIH) Committee**—Chair Joy Jacobsen, MS, CIH, CSP, CRSP, EP; Vice Chair Diana Harrington Peroni, CIH; Secretary Katie E. Stryker, CIH; Past Chair Crystal C. Brown, CIH, CSP. AIHA Teal Color Council Committee.

**AIHA® Volunteer Groups Named Awards**

**AIHA Local Section Awards**

**The Jim D’Arcy JOEH Original Article Award**

The Michigan Industrial Hygiene Society (MIHS) Best Paper Award is awarded to the authors of an original article from the *Journal of Occupational and Environmental Hygiene* (JOEH). With the passing of long-time selection committee chair, Dr. Jim D’Arcy, in June 2021, MIHS renamed the award the Jim D’Arcy JOEH Original Article Award. This year’s award is presented to Ashley Newton, Karin Adams, PhD, CIH, Berrin Serdar, L. Miriam Dickinson, and Kristen Koehler for the article “Personal and Area Exposure Assessment at a Stainless-Steel Fabrication Facility: An Evaluation of Inhalable, Time-Resolved PM10, and Bioavailable Airborne Metals” published in the *Journal of Occupational and Environmental Hygiene*, volume 18, 2021, issue 2, pages 90-100, published online: 8 February 2021.
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  - Pulse-Free, Stable Pressure Flow
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Friday, May 20
5:00 p.m.–7:00 p.m.
- Registration, Registration Lobby, 2nd Floor
5:15 p.m.–7:00 p.m.
- Speaker Ready Room, Room 201 A

Saturday, May 21
6:30 a.m.–5:30 p.m.
- Registration, Registration Lobby, 2nd Floor
7:00 a.m.–7:30 a.m.
- PDC Monitor Meeting, Room 201 A
7:00 a.m.–5:30 p.m.
- Speaker Ready Room, Room 201 A
8:00 a.m.–Noon
- PDC 201: Pandemic Response Program (PRP) Plan Workshop – NEW!, Room 103 A
- PDC 202: Practical Applications in Water Management for the Control of Legionella and Other Waterborne Pathogens, Room 205 A
- PDC 203: The OSHA HAZWOPER Standard – Misunderstandings and Misinterpretations, Room 104 A
8:00 a.m.–5:00 p.m.
- PDC 102: Risk Assessment for Elongate Mineral Particles, Room 102 A
- PDC 103: You are the New Radiation Safety Officer... Now What?, Room 106 A
- PDC 104: Advanced Application of 4-Gas/PID Sensor Technology, Room 104 D
- PDC 105: Methods and Applications for Real-Time Chemical Detection, Room 207 C
- PDC 106: Understanding Leadership From the Masters, Room 202 C

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All times listed are Central.
Sunday, May 22 At A Glance

6:30 a.m.–7:00 p.m.
- Registration, Registration Lobby, 2nd Floor

7:00 a.m.–7:30 a.m.
- PDC Monitor Meeting, Room 201 A

7:00 a.m.–5:30 p.m.
- Speaker Ready Room, Room 201 A

8:00 a.m.– Noon
- PDC 501: Aerosol Sampling Update, Room 102 A
- PDC 502: Framework for Ensuring Proper Use of Direct-Reading Instruments, Room 106 A
- PDC 503: Investigations, Litigation, and Case Studies for Legionnaires’ Disease, Room 205 A

8:00 a.m.– 5:00 p.m.
- PDC 401: Identifying and Quantifying Post Fire and Post Urban Wildfire Hazards, Room 104 C
- PDC 402: Classification and Management of Hazardous Waste, Room 104 D
- PDC 403: Communicating Science and Technical Concepts – NEW!, Room 103 A
- PDC 404: Ensuring Safe Entry to Oddball Confined Spaces, Room 207 C
- PDC 405: Leadership and Communication – Why It’s (Almost) Everything in HSE, Room 209 A
- PDC 407: A Gentle Approach to RF for IHs, Room 106 C
- PDC 408: Cultivating a Culture of Health and Safety Within the Cannabis Industry – NEW!, Room 104 A

Noon–1:00 p.m.
- PDC Luncheon, Room 101 A

Noon–5:00 p.m.
- AIHF’s 36th Annual Fun Run/Walk Registration Open, Registration Lobby, 2nd Floor

1:00 p.m.–5:00 p.m.
- PDC 601: Managing IH Data the Smart and Easy Way – NEW!, Room 102 A
- PDC 602: State-of-the-Art Modeling for Industrial Hygienists Using IH Mod 2.0 With Monte Carlo Simulation, Room 205 A
- PDC 603: Ethics and the COVID-19 Pandemic – A Case Study on Reopening Workplaces – NEW!, Room 106 A

5:15 p.m.–6:15 p.m.
- AIHA Risk Committee, Omni, Broadway Ballroom J

5:30 p.m.–7:30 p.m.
- ISS Forum 2022 (by invitation only), Omni, Music Row 3

6:00 p.m.–7:00 p.m.
- AIHA Museum and Cultural Heritage Committee, Omni, Broadway Ballroom G
- AIHA Oil and Gas Working Group Meeting, Omni, Broadway Ballroom H

6:00 p.m.–7:30 p.m.
- AIHA International Affairs Committee Meeting, Omni, Legends Ballroom A
- AIHA Mining Working Group Meeting, Omni, Broadway Ballroom D

6:00 p.m.–8:00 p.m.
- AIHA Women in IH (WIH) Committee Meeting, Omni, Broadway Ballroom K

6:30 p.m.–7:30 p.m.
- AIHA Environmental Issues Committee Meeting, Omni, Broadway Ballroom C
- AIHA Sampling and Laboratory Analysis Committee Meeting, Omni, Broadway Ballroom A

6:30 p.m.–8:00 p.m.
- AIHF Donor and Scholarship Recipient Reception (by invitation only), Omni, Legends Ballroom D

6:30 p.m.–8:30 p.m.
- AIHA Respiratory Protection Committee Meeting, Omni, Broadway Ballroom B

7:30 p.m.–9:00 p.m.
- FLI Alumni Reception (by invitation only), Omni, Grand View Terrace, sponsored by
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Learn more at Booth 905 and join us for our Learning Pavilion!
Monday, May 23 At A Glance

6:00 a.m.–7:30 a.m.
- AIHA Mentoring and Professional Development Committee Meeting, Omni, Legends Ballroom E
- Namaste With AIHA (yoga), Omni, Music Row 2

6:30 a.m.–7:30 a.m.
- First-Timers’ Meet and Greet sponsored by Omni, Legends Ballroom D

7:00 a.m.–5:30 p.m.
- Registration, Registration Lobby, 2nd Floor

8:00 a.m.–4:00 p.m.
- Speaker Ready Room, Room 201 A

8:00 a.m.–5:00 p.m.
- AIHF’s 36th Annual Fun Run/Walk Registration, Registration Lobby, 2nd Floor

9:00 a.m.–11:00 a.m.
- Career Advantage Fair Résumé Critiquing, Room 206 B

9:00 a.m.–4:00 p.m.
- Career Advantage Fair, Room 206 B

9:00 a.m.–5:30 p.m.
- Exhibit Hall Open, Exhibit Halls A and B

10:00 a.m.–11:00 a.m.
- A1: Research Roundup: Risk Assessment 1, Room 207 A
- A2: Research Roundup: Aerosols 1, Room 207 C
- A3: Industrial Hygiene 4.0 — The Next Iteration of the OEHS Profession, Room 105 A
- A4: Using Human Performance Evaluations to Accurately Identify Exposure Risk, Room 102 A
- A5: Assessing Worker Well-Being Via the NIOSH Worker Well-Being Questionnaire (NIOSH WellBQ), Room 106 A
- A6: IHs Are the Greatest Salespeople in the World, Room 104 A
- A7: The Risk Assessment Process and High Hazard Risk Reduction, Room 202 A
- A8: Ask the Expert with the Opening Keynote Speaker, Capt. Chris Cassidy, Room 205 A
- A9: Preparing OEHS for Tectonic Shifts in Organizational Decision Making, Room 209 A
- A10: The Role of the IH in a Pandemic, Part 1, Room 103 A

8:00 a.m.–9:30 a.m.
- Opening General Session and Coffee

10:00 a.m.–11:00 a.m.
- A1: Research Roundup: Risk Assessment 1, Room 207 A
- A2: Research Roundup: Aerosols 1, Room 207 C
- A3: Industrial Hygiene 4.0 — The Next Iteration of the OEHS Profession, Room 105 A
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- A9: Preparing OEHS for Tectonic Shifts in Organizational Decision Making, Room 209 A
- A10: The Role of the IH in a Pandemic, Part 1, Room 103 A

9:00 a.m.–11:00 a.m.
- Career Advantage Fair Résumé Critiquing, Room 206 B

10:00 a.m.–11:00 a.m.
- 8 A1: Research Roundup: Risk Assessment 1, Room 207 A
- 8 A2: Research Roundup: Aerosols 1, Room 207 C
- 8 A3: Industrial Hygiene 4.0 — The Next Iteration of the OEHS Profession, Room 105 A
- 8 A4: Using Human Performance Evaluations to Accurately Identify Exposure Risk, Room 102 A
- 8 A5: Assessing Worker Well-Being Via the NIOSH Worker Well-Being Questionnaire (NIOSH WellBQ), Room 106 A
- 8 A6: IHs Are the Greatest Salespeople in the World, Room 104 A
- 8 A7: The Risk Assessment Process and High Hazard Risk Reduction, Room 202 A
- 8 A8: Ask the Expert with the Opening Keynote Speaker, Capt. Chris Cassidy, Room 205 A
- 8 A9: Preparing OEHS for Tectonic Shifts in Organizational Decision Making, Room 209 A
- 8 A10: The Role of the IH in a Pandemic, Part 1, Room 103 A

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Pop-Up Education and Health & Wellness Schedule

8:00 a.m.–9:30 a.m.
- Opening General Session and Coffee

10:00 a.m.–10:25 a.m.
- Evaluating Respirable Titanium Dioxide Using X-Ray Diffraction
  Presenter: Steven Verpaele, Nickel Institute, Belgium

10:30 a.m.–10:55 a.m.
- Noise Dosimetry Data Collection With a Smartphone
  Presenter: Mark Rollins, A-EHS

11:00 a.m.–11:25 a.m.
- Industrial Hygiene and Safety in Construction
  Presenter: Philip Pederson, Consultant

11:30 a.m.–11:55 a.m.
- Exposures Associated With 3D Printing in Schools
  Presenters: Aika Davis; Qian Zhang, Chemical Insights Research Institute

2:00 p.m.–2:25 p.m.
- Applying Visual Literacy to Health and Safety
  Presenter: Carl Sall, WSP

2:30 p.m.–2:55 p.m.
- Managing Fatigue Risk in a 24/7 Workplace
  Presenter: Brad Jones, LyondellBasell

3:00 p.m.–3:25 p.m.
- Highlighting Priority Technologies for Worker Safety
  Presenter: Sarah Ischer, National Safety Council

3:30 p.m.–3:55 p.m.
- Rolling Out the “Smart Fit Test” Program
  Presenter: Siu Keung Li, Hong Kong Hospital Authority, Hong Kong

4:00 p.m.–4:25 p.m.
- Using Computer Modeling to Predict Exposure
  Presenter: Jason Lott, Atton Chemical

Time | Pop-up Education | Health and Wellness
--- | --- | ---
10:00 a.m.–10:25 a.m. | Evaluating Respirable Titanium Dioxide Using X-Ray Diffraction | Relaxation Techniques in the Workplace
10:30 a.m.–10:55 a.m. | Noise Dosimetry Data Collection With a Smartphone | Chair Yoga (Yoga at Your Desk)
11:00 a.m.–11:25 a.m. | Industrial Hygiene and Safety in Construction | Intro to Meditation
11:30 a.m.–11:55 a.m. | Exposures Associated With 3D Printing in Schools | Small World Yoga
2:00 p.m.–2:25 p.m. | Applying Visual Literacy to Health and Safety | It All Begins With the Breath
2:30 p.m.–2:55 p.m. | Managing Fatigue Risk in a 24/7 Workplace | Tapping
3:00 p.m.–3:25 p.m. | Highlighting Priority Technologies for Worker Safety | Four-Minute Fitness
3:30 p.m.–3:55 p.m. | Rolling Out the “Smart Fit Test” Program | Anti-Anxiety Toolbox
4:00 p.m.–4:25 p.m. | Using Computer Modeling to Predict Exposure | Bruce Kelly

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Monday, May 23 At A Glance

Innovation Station Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Sponsor</th>
<th>Exhibit Hall Aisle 400</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:35 a.m.–10:00 a.m.</td>
<td><strong>INDUSTRIAL SCIENTIFIC</strong></td>
<td>How to Build a Chemical Emergency Toolkit</td>
</tr>
<tr>
<td>10:10 a.m.–10:35 a.m.</td>
<td><strong>SGS GALSON</strong></td>
<td>Analysis of Settled Dust for Infiltration of Wildfire-Related Particulate Combustion Products</td>
</tr>
<tr>
<td>11:20 a.m.–11:45 a.m.</td>
<td><strong>hnu</strong></td>
<td>Advances in Real-Time Detection Systems</td>
</tr>
<tr>
<td>12:15 p.m.–12:40 p.m.</td>
<td><strong>PURE MAINTENANCE</strong></td>
<td>How to Comprehensively Eliminate Toxic Airborne Mold in 4 Hours</td>
</tr>
<tr>
<td>12:50 p.m.–1:15 p.m.</td>
<td><strong>equiVITAL</strong></td>
<td>Manage, Monitor, and Help Protect Your Teams From the Heat</td>
</tr>
<tr>
<td>1:25 p.m.–1:50 p.m.</td>
<td><strong>SmartSense</strong></td>
<td>Quieter Is Better!</td>
</tr>
<tr>
<td>2:00 p.m.–2:25 p.m.</td>
<td><strong>SKC</strong></td>
<td>Real-Time Solutions for Real-Time Challenges: Silica &amp; Respiratory Protection</td>
</tr>
</tbody>
</table>

10:00 a.m.–11:00 a.m.

- **Learning Pavilion: Can’t We Do Better Than Manual Observation Risk Assessment for Workplace Musculoskeletal Disorders? Yes, We Can! by Velocity EHS, Show Office B, Level 3M outside Exhibit Hall B**
- **AIHA Climate Change Adaptation Task Force (by invitation only), Omni, Music Row 1**
- **Standards Advisory AIHce Meet-Up (by invitation only), Omni, Music Row 4**

10:00 a.m.–4:30 p.m.

- **The Nexus Lounge for Students and Early Career Professionals, Room 208 A**
- **VelocityEHS**
- **IndustriAll Scientific**
- **SGS Galson**
- **hnu**
- **Pure Maintenance**
- **equiVITAL**
- **SKC**

11:00 a.m.–12:15 p.m.

- **Student Local Sections Council Business Meeting, Omni, Cumberland 1**
- **B6: Why Your (Our) Leadership Is as Critical as Ever, Room 205 A**
- **B7: Changing the Paradigm of the Modern-Day Industrial Hygiene/Occupational Safety Professional, Room 202 A**
- **B8: Fundamentals of OEHS Management Metrics, Room 105 A**
- **B9: Reopening Buildings Safely After Prolonged Shutdowns, Room 102 A**
- **B10: The Role of the IH in a Pandemic, Part 2, Room 103 A**
- **Learning Pavilion: Noise Surveys: Yesterday’s Pitfalls, Today’s Solutions, and the Possible Effects of Ototoxins on Your Hearing Conservation Program by SKC, Show Office B, Level 3M outside Exhibit Hall B**
- **Poster Session 1 – Author Attend Time, 2nd Floor Prefunction**
- **Academic Advisory Group, Omni, Gibson Boardroom**

1:00 p.m.–2:00 p.m.

- **Career Advantage Fair Résumé Critiquing, Room 206 B**
- **C1: Research Roundup: Hazard Recognition and Exposure Assessment 1, Room 202 A**
- **C2: Research Roundup: Risk Assessment 2, Room 202 A**
- **C3: Occupational Health and Safety Priorities in Gold Mining, Room 207 C**
- **C4: STPA Hazard Evaluation Technique — A New Tool in the IH/OS Tool Box, Room 209 A**
- **C5: What the Highest Performing S&H Professionals Have in Common in Leadership and Influence, Room 106 A**
- **C6: Perspectives and Challenges of IH Professionals Within the Circular Economy, Room 207 A**

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Monday, May 23 At A Glance

2:00 p.m.–3:00 p.m.
- C7: Museums, Part 1 — Exploring Interdisciplinary Teaching and Community Collaboration With Museum Studies and OEHS Campus Programs, Room 104 A
- C8: How Campbell Award Winners Found Success Through Effective Leadership, Room 105 A
- C9: A Balanced Approach to Leading Health Metrics, Room 205 A
- C10: The Role of the IH in a Pandemic, Part 3, Room 103 A
- BGC Forum, Omni, Music Row 5

2:00 p.m.–3:00 p.m.
- D1: Research Roundup: Hazard Recognition and Exposure Assessment 2, Room 102 A
- D2: Research Roundup: Sampling and Analysis, Room 105 A
- D3: Mesothelioma in Miners — Lessons From Taconite Ore Studies, Room 207 C
- D4: The Must Haves in Your In-Plant Gas Detection Monitoring Program, Room 209 A
- D5: Engaging Workers to Achieve Total Worker Health®, Room 106 A
- D6: Safety Challenges and Solutions for Younger and Older Workers, Room 205 A
- D7: Museums, Part 2 — A Behind-the-Scenes Look at Worker Safety Through Industry Practices and OSHA On-Site Consultation Outreach, Room 104 A
- D8: Upton Sinclair Memorial Lecture — Hot Days: How Data and Documents Shined a Light on Heat’s Mounting Death Toll on Workers In the US, Room 202 A
- D9: OEHS Professionals as ESG Leaders in the Post-2020 Era, Room 103 A
- D10: Best Practices for Protecting Lone Lab Researchers, Room 207 A
- Student Poster Session – Author Attend Time, 2nd Floor Prefunction

3:00 p.m.–3:15 p.m.
- Continue the Conversation - C8: How Campbell Award Winners Found Success Through Effective Leadership, 1st Floor Prefunction between Rooms 102 and 104
- Continue the Conversation - C9: A Balanced Approach to Leading Health Metrics, 2nd Floor Prefunction between Rooms 203 and 206

3:15 p.m.–4:15 p.m.
- D1: Research Roundup: Hazard Recognition and Exposure Assessment 2, Room 102 A
- D2: Research Roundup: Sampling and Analysis, Room 105 A
- D3: Mesothelioma in Miners — Lessons From Taconite Ore Studies, Room 207 C
- D4: The Must Haves in Your In-Plant Gas Detection Monitoring Program, Room 209 A
- D5: Engaging Workers to Achieve Total Worker Health®, Room 106 A
- D6: Safety Challenges and Solutions for Younger and Older Workers, Room 205 A
- D7: Museums, Part 2 — A Behind-the-Scenes Look at Worker Safety Through Industry Practices and OSHA On-Site Consultation Outreach, Room 104 A
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- Student Poster Session – Author Attend Time, 2nd Floor Prefunction

4:00 p.m.–5:00 p.m.
- D11: Best Practices for Protecting Lone Lab Researchers, Room 207 A
- D12: Research Roundup: Sampling and Analysis, Room 105 A
- D13: Virtual Interviewing: Do’s and Don’ts for the Interviewer and Interviewee
- D14: Commit to CARE: The Science Behind the Movement
- D15: How to Get Published: Tips for Early Career Researchers
- D16: Differentiate Yourself Through Superior Communication and Positive Personal Brand in All Aspects of the Hiring Process – How to Communicate With Perspective Employers

4:00 p.m.–5:00 p.m.
- AIHA Technology Initiatives Strategic Advisory Group, Omni, Legends Ballroom E
- AIHA Confined Spaces Committee, Omni, Legends Ballroom G
- AIHA Aerosol Technology Committee, Omni, Broadway Ballroom C
- AIHA Ergonomics Committee, Omni, Broadway Ballroom H
- AIHA Fellows Special Interest Group, Omni, Music Row 5
- AIHA Occupational and Environmental Epidemiology Committee, Omni, Broadway Ballroom K
- AIHA Confined Spaces Committee, Omni, Legends Ballroom G
- AIHA Government Relations Committee, Omni, Broadway Ballroom J

4:30 p.m.–5:30 p.m.
- Expo Hall Networking Reception, Exhibit Halls A and B

5:30 p.m.–6:30 p.m.
- Sunset Session: The Critical Role of OEHS Professionals in Successful Emergency Planning and Preparedness, Room 202 A

6:00 p.m.–7:00 p.m.
- AIHA Aerosol Technology Committee, Omni, Broadway Ballroom C
- AIHA Ergonomics Committee, Omni, Broadway Ballroom H
- AIHA Fellows Special Interest Group, Omni, Music Row 5
- AIHA Occupational and Environmental Epidemiology Committee, Omni, Broadway Ballroom K

6:00 p.m.–7:30 p.m.
- Academic Accreditation Panel, Omni, Old Hickory
- AIHA Confined Spaces Committee, Omni, Legends Ballroom G

6:00 p.m.–8:30 p.m.
- AIHA Government Relations Committee, Omni, Broadway Ballroom J
- Department of Energy (DOE) and DOE Contractor Industrial Hygiene Annual Meeting, Omni, Legends Ballroom A

6:30 p.m.–7:30 p.m.
- AIHA International Reception, Omni, Legends Ballroom D

6:30 p.m.–8:00 p.m.
- AIHA Cannabis Health and Safety Committee Meeting, Omni, Broadway Ballroom G

7:00 p.m.–8:30 p.m.
- AIHA Exposure Assessment Strategies Committee Meeting, Omni, Legends Ballroom F

8:30 p.m.–9:30 p.m.
- AIHA Aerosol Technology Committee, Omni, Broadway Ballroom C
- AIHA Ergonomics Committee, Omni, Broadway Ballroom H
- AIHA Fellows Special Interest Group, Omni, Music Row 5
- AIHA Occupational and Environmental Epidemiology Committee, Omni, Broadway Ballroom K

9:00 p.m.–10:30 p.m.
- AIHA Confined Spaces Committee, Omni, Legends Ballroom G
- AIHA Government Relations Committee, Omni, Broadway Ballroom J
- Department of Energy (DOE) and DOE Contractor Industrial Hygiene Annual Meeting, Omni, Legends Ballroom A

10:30 p.m.–11:30 p.m.
- AIHA International Reception, Omni, Legends Ballroom D

11:00 p.m.–12:30 a.m.
- AIHA Aerosol Technology Committee, Omni, Broadway Ballroom C
- AIHA Ergonomics Committee, Omni, Broadway Ballroom H
- AIHA Fellows Special Interest Group, Omni, Music Row 5
- AIHA Occupational and Environmental Epidemiology Committee, Omni, Broadway Ballroom K

All times listed are Central.

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AIHA Main Stage Schedule
All held in the Exhibit Hall, AIHA Booth 925

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00 a.m.–11:45 a.m.</td>
<td>Virtual Interviewing: Do’s and Don’ts for the Interviewer and Interviewee</td>
</tr>
<tr>
<td>Noon–12:25 p.m.</td>
<td>Government Relations</td>
</tr>
<tr>
<td>12:30 p.m.–12:55 p.m.</td>
<td>Commit to CARE: The Science Behind the Movement</td>
</tr>
<tr>
<td>1:00 p.m.–1:25 p.m.</td>
<td>The Role of AIHA’s Content Priorities</td>
</tr>
<tr>
<td>1:30 p.m.–1:55 p.m.</td>
<td>How to Get Published: Tips for Early Career Researchers</td>
</tr>
<tr>
<td>2:30 p.m.–3:15 p.m.</td>
<td>Differentiate Yourself Through Superior Communication and Positive Personal Brand in All Aspects of the Hiring Process – How to Communicate With Perspective Employers</td>
</tr>
</tbody>
</table>
Meeting Room 206B

The #1 career resource for OEHS professionals is coming to AIHce EXP!

Level up your career with informative workshops, free résumé critiques, and unique networking opportunities. Reserve your personal session by contacting Wanda Barbour.

**Résumé Critiquing**
- **Monday, May 23**
  9:00 a.m.–11:00 a.m. and 1:00 p.m.–2:00 p.m.
- **Tuesday, May 24**
  9:00 a.m.–10:00 a.m. and 1:00 p.m.–3:00 p.m.
- **Wednesday, May 25**
  9:00 a.m.–Noon and 1:00 p.m.–3:00 p.m.

Sign up for your individual résumé critiquing session with an experienced hiring director. You will get helpful feedback on style, length, focus, use of accomplishments, keywords, and more.

**Mock Interviewing**
- **Tuesday, May 24 | 10:00 a.m.–Noon**

See yourself through an employer’s eyes when you meet with an experienced hiring director during a mock interview. You will receive helpful feedback and learn the most effective presentation of skills, abilities, and professionalism.

**Speed Networking (4th Floor Lobby)**
- **Tuesday, May 24 | 10:00 a.m.–Noon**

See yourself through an employer’s eyes when you meet with an experienced hiring director during a mock interview. You will receive helpful feedback and learn the most effective presentation of skills, abilities, and professionalism.

**AIHA Main Stage Career Presentations**

**Exhibit Hall, AIHA Booth 925**

**Virtual Interviewing: Do’s and Don’ts for the Interviewer and Interviewee**
- **Monday, May 23 | 11:00 a.m.–11:45 a.m.**

Thomas Blank, CIH, CSP, FAIHA
Brandi Kissel, CIH, CSP
Franky Spangler, PHR, SHRM-SCP

The praxis of virtual interviewing has become a norm over the last 20+ months. This presentation will discuss lessons learned from the virtual interview processes. Taking the etiquette designed for in-person interviews to the 21st Century through insight from AIHA community members experiences.

**Differentiate Yourself Through Superior Communication and Positive Personal Brand in All Aspects of the Hiring Process — How to Communicate With Perspective Employers**
- **Monday, May 23 | 2:30 p.m.–3:15 p.m.**

Nancy Lawrence, PhD
Kevin Roegner, MPH, CIH
Mark Hayden, MHS, CIH

Are you unknowingly sending the wrong message to potential future employers during the application and interview process? Do you know what a proper cover letter should include? This presentation will cover information on how to present yourself as a better candidate, how to improve your resume, social media pitfalls, the perfect cover letter, and more.

aihacareeradvantage.org
Monday, May 23 Sessions

8:00 a.m.–9:30 a.m.
Opening General Session

Keys to Assessing Risk — Knowing When to Push or Pivot
Karl F. Dean Ballroom ABC-S

Presenter: Capt. Chris Cassidy, NASA Astronaut, U.S. Navy SEAL, CEO, and President of the National Medal of Honor Museum

Capt. Cassidy’s career engaging in complex missions both as a Navy SEAL and NASA astronaut exposed him to risks at every turn and challenging environments where his decision-making ability was put to the test. From navigating enemy territory in Afghanistan to making the difficult decision to terminate a spacewalk mission and get his fellow astronaut to safety when he had a leak in his spacesuit, Capt. Cassidy spent his entire career analyzing threats and charting the best course of action to ensure the safety of his teams.

In this AIHce EXP talk, he draws from his experiences in crisis management to share the keys to managing and assessing risk and effective decision-making, as well as actionable steps for determining when to push through and when to pivot from the objective at hand to adapt and position organizations for success.

10:00 a.m.–11:00 a.m.

AI: Research Roundup: Risk Assessment I

Room 207 A
Moderator: Hope (Nadia) Moore, J.S. Held, LLC.
10:00 a.m.—10:30 a.m.
Review of Solid and Liquid Loading Values on Skin — Applications for Risk Assessment, Part 1
Presenter: Jennifer Sahmel, Insight Exposure and Risk Sciences.
10:30 a.m.—11:00 a.m
Review of Solid and Liquid Loading Values on Skin — Applications for Risk Assessment, Part 2
Presenter: Heather Avens, Insight Exposure and Risk Sciences.

A3: Industrial Hygiene 4.0 — The Next Iteration of the OEHS Profession
Room 105 A
Moderator: Felix Boachie, McCormick & Company. Presenters: Mwangi Ndonga, Ball Corporation; Emanuele Cauda, CDC/NIOSH; John Snawder, NIOSH/AIHA.

A4: Using Human Performance Evaluations to Accurately Identify Exposure Risk
Room 102 A
Moderator: Karen O’Hara, WorkCare, Inc. Presenter: John Longphre, WorkCare, Inc.

Session and coffee sponsored by GALS ON

10:30 a.m.—1:00 p.m.
Design and Performance of Size-Selective Aerosol Sampling Inlets, Part 2
Presenter: Patrick O’Shaughnessy, The University of Iowa.

Sessions marked with 🎨 will be broadcast for Virtual AIHce EXP.
Sessions marked with ⚽️ are included in OnDemand.
Sessions, schedule, and inclusion in OnDemand are subject to change.
Monday, May 23 Sessions

❖ A5: Assessing Worker Well-Being Via the NIOSH Worker Well-Being Questionnaire (NIOSH WellBQ)
Room 106 A
Moderator/Presenter: Chia-Chia Chang, CDC/NIOSH.

❖ A6:IHs Are the Greatest Salespeople in the World
Room 104 A
Moderator: Justin Hoover, New Millennium Building Systems. Presenters: Jason Kunz, Perry Logan, 3M.

❖ A7: The Risk Assessment Process and High Hazard Risk Reduction
Room 202 A
Moderator/Presenter: Liz Vold, 3M. Presenter: Daniel Sanborn, 3M.

❖ A8: Ask the Expert with the Opening Keynote Speaker, Capt. Chris Cassidy
Room 205 A

❖ A9: Preparing OEHS for Tectonic Shifts in Organizational Decision Making
Room 209 A
Moderator/Presenter: Charles Redinger, Institute for Advanced Risk Management.

❖ N9: The Role of the IH in a Pandemic, Part I
Room 103 A

Learning Pavilion

❖ A10: Can’t We Do Better Than Manual Observation Risk Assessment for Workplace Musculoskeletal Disorders? Yes, We Can! by VelocityEHS
Show Office B, Level 3M outside Exhibit Hall B
11:15 a.m.–12:15 p.m.

❖ B1: Research Roundup: Epidemiology
Room 209 A
Moderator: Shilpi Misra, NIOSH.
11:15 a.m.–11:45 a.m.
A New Framework for Improving Miners’ Health
Presenter: Aaron Sussell, CDC/NIOSH.
11:45 a.m.–12:15 p.m.
Presenter: Kendra Broadwater, NIOSH.

❖ B2: Research Roundup: Aerosols 2
Room 207 A
11:15 a.m.–11:45 a.m.
Respirable Dust Generated from Cutting Concrete in Laboratory Full-Scale Cutting Tests with Conical Picks at Different Stages of Wear
Presenter: Syd Slouka, Earth Mechanics Institute.
11:45 a.m.–12:15 p.m.
Influence of Face Shields on Exposures to Respirable Aerosol
Presenter: Darrah Sleeth, University of Utah.

❖ B3: Evaluating Noise-Induced Hearing Loss Workers’ Compensation Claims
Room 104 A
Moderator/Presenter: Anthony DiMaggio, Chubb Global Risk Advisors.

Sessions marked with ❖ will be broadcast for Virtual AIHce EXP.
Sessions marked with ☉ are included in OnDemand.
Sessions, schedule, and inclusion in OnDemand are subject to change.
Monday, May 23 Sessions

B5: EH&S Professionals’ Journeys From Safety to Wellness
Room 106 A
Moderator: Karen O’Hara, WorkCare, Inc.
Presenter: Anthony Harris, WorkCare, Inc.

B6: Why Your (Our) Leadership Is as Critical as Ever
Room 205 A
Moderator: Kiesha Curley, 3M.
Presenters: Jason Kunz, Liz Vold, 3M; Justin Hoover, New Millennium Building Systems.

B7: Changing the Paradigm of the Modern-Day Industrial Hygiene/Occupational Safety Professional
Room 202 A
Moderator/Presenter: Kelsey Forde, Parvati Consulting LLC. Presenter: Timothy Stirrup, Parvati Consulting LLC.

B8: Fundamentals of OEHS Management Metrics
Room 105 A
Moderator: Eltanice Bolden, General Motors. Presenter: Alan Leibowitz, EHS Systems Solutions, LLC.

B9: Reopening Buildings Safely After Prolonged Shutdowns
Room 102 A
Moderator: Tianbao Bai, Eurofins CEI, Inc.
Presenter: Michael Berg, Eurofins Built Environment.

BIO: The Role of the IH in a Pandemic, Part 2
Room 103 A
Moderator: Roger Lewis, Saint Louis University. Presenter: Dana Stahl, The Seattle Public Library.

Learning Pavilion
Noise Surveys: Yesterday’s Pitfalls, Today’s Solutions, and the Possible Effects of Ototoxins on Your Hearing Conservation Program by SKC Show Office B, Level 3M outside Exhibit Hall B

Poster Session 1
Author Attend Time
2nd Floor Prefunction
Topics: Big Data, Epidemiology, Hazard Recognition/Exposure Assessment, Indoor Environmental Quality/Indoor Air Quality, Noise/Hearing Loss Prevention, Risk Assessment and Management, Sampling and Analysis

See page 56 for posters on these topics. For a full list of co-authors and detailed abstracts, see AIHce EXP 2022 website.

 Expo Hall Activities
See pages 62–63 for food, activities, and more happening in the Expo Hall throughout the day.

See page 23 for the Innovation Station schedule.

2:00 p.m.–3:00 p.m.

C1: Research Roundup: Hazard Recognition and Exposure Assessment I
Room 102 A
Moderator: Aurora Le, University of Michigan School of Public Health.

2:00 p.m.–2:30 p.m.
Assessment of Nanoparticle Occupational Exposures in an Electronic Recycling Facility
Presenter: Cynthia Pugh, Indiana University of Pennsylvania.

2:30 p.m.–3:00 p.m.
Respirable Crystalline Silica Exposures among U.S. Metal and Nonmetal Miners — Mine Safety and Health Administration, 2000-2019
Presenter: Shilpi Misra, NIOSH.

Full session descriptions may be found in the mobile app. Events take place at the Music City Center unless otherwise noted.
Monday, May 23 Sessions

C2: Research Roundup: Risk Assessment 2
Room 202 A
Moderator: Alan Rossner, Clarkson University.
2:00 p.m.–2:30 p.m.
Pigment Violet 29 — EPA’s Process of Determining Unreasonable Risk Due to Worker Exposure
Presenter: Robert Rottersman, Ramboll.
2:30 p.m.–3:00 p.m.
Task-Based Exposure Assessment Using Data Generated During Robotic Simulation of Human Spraying
Presenter: Jennifer Shin, ExxonMobil Biomedical Sciences, Inc.

C3: Occupational Health and Safety Priorities in Gold Mining
Room 207 C
Moderator: Andrey Korchevskiy, Chemistry & Industrial Hygiene, Inc.
Presenters: Frank Crowne, Frank Roberto, Newmont.

C4: STPA Hazard Evaluation Technique — A New Tool in the IH/OS Tool Box
Room 209 A
Moderator/Presenter: Kelsey Forde, Parvati Consulting LLC. Presenter: Timothy Stirrup, Parvati Consulting LLC.

C5: What the Highest Performing S&H Professionals Have in Common in Leadership and Influence
Room 106 A
Moderator/Presenter: Kelsey Forde, Parvati Consulting LLC. Presenters: Jason Kunz, Perry Logan, 3M.

C6: Perspectives and Challenges of IH Professionals Within the Circular Economy
Room 207 A
Moderator: Aubrey Arain, Oakland University. Presenters: Robert Costello, Environmental Profiles Inc.; Paul Harper, EcoBat LLC.

C7: Museums, Part I — Exploring Interdisciplinary Teaching and Community Collaboration with Museum Studies and OEHS Campus Programs
Room 104 A
Moderator: Kelsey Babik, National Academies of Science, Engineering, and Medicine. Presenters: Holly Cusack McVeigh, Indiana University-Purdue University Indianapolis; Sarah Halter, Indiana Medical History Museum; Mark Wilson, Purdue University.

C8: How Campbell Award Winners Found Success Through Effective Leadership
Room 105 A
Moderator/Presenter: Katherine Mendoza, National Safety Council.

C9: A Balanced Approach to Leading Health Metrics
Room 205 A
Moderator: Alan Leibowitz, EHS Systems Solutions, LLC. Presenter: Paul Esposito, STAR Consultants, Inc.

D1: Research Roundup: Hazard Recognition and Exposure Assessment 2
Room 103 A

CIO: The Role of the IH in a Pandemic, Part 3
Room 102 A
Moderator: Derek Newcomer, USPHS.
3:15 p.m.–4:15 p.m.

D2: Research Roundup: Hazard Recognition and Exposure Assessment 2
Room 102 A
Moderator: Derek Newcomer, USPHS.
3:15 p.m.–4:15 p.m.
Exposures and Biomarkers of Organophosphorus Flame Retardants Among Spray Foam Applicators — Intervention Opportunities
Presenter: Anila Bello, University of Massachusetts Lowell.
Monday, May 23 Sessions

3:45 p.m.—4:15 p.m.
The Isolated Worker — Chemical-Specific Worker Protection With Remote Real-Time Air Monitoring Strategies and Hazard Communication — The Sentinel Protocol
Presenter: Derek Kliethermes, Center For Toxicology & Environmental Health, LLC.

D2: Research Roundup: Sampling and Analysis
Room 105 A
Moderator: Daniel Farcas, HETI.
3:15 p.m.—3:45 p.m.
Control of Workplace Exposures Using Personal Monitoring Badges
Presenter: Charles Manning, Assay Technology.
3:45 p.m.—4:15 p.m.
Uptake of the Widest Range of Hazardous Volatile Organic Analytes Using an Inorganic Mesoporous Sorbent
Presenter: Nick Materer, XploSafe.

D3: Mesothelioma in Miners — Lessons From Taconite Ore Studies
Room 207 C
Moderator: Daniel Hall, Chemistry & Industrial Hygiene, Inc. 
Presenters: Andrey Korchevskiy, Chemistry & Industrial Hygiene, Inc.; Linda Dell, Ramboll.

D4: The Must Haves in Your In-Plant Gas Detection Monitoring Program
Room 209 A
Moderator/Presenter: Laura Faust, Industrial Scientific Corporation.
Presenter: Gregg Bako, Industrial Scientific Corporation.

D5: Engaging Workers to Achieve Total Worker Health®
Room 106 A
Moderator: Dede Montgomery, Oregon Institute of Occupational Health Sciences, Oregon Healthy Workforce Center.
Presenter: Jennifer Cavallari, UConn School of Medicine.

D6: Safety Challenges and Solutions for Younger and Older Workers
Room 205 A
Moderator: Andy Ackerson, Chubb Insurance. 
Presenter: Brendan Moriarty, Chubb Insurance.

D7: Museums, Part 2 — A Behind-the-Scenes Look at Worker Safety Through Industry Practices and OSHA On-Site Consultation Outreach
Room 104 A
Moderator: Kathryn Makos, Retired.
Presenters: Nancy Nash, OSHA; Nathan Augustine, Deere and Company.

D8: Upton Sinclair Memorial Lecture — Hot Days: How Data and Documents Shined a Light on Heat’s Mounting Death Toll on Workers In the US
Room 202 A
Moderator: Leo Old, EnSafe, Inc.
Presenter: Kristen Lombardi, Columbia Journalism School.

D9: OEHS Professionals as ESG Leaders in the Post-2020 Era
Room 103 A
Moderator: Kyle Dotson, Dotson Group, LLC. 
Presenters: Charles Redinger, Institute for Advanced Risk Management; Alyse Grumbles, Shell.

D10: Best Practices for Protecting Lone Lab Researchers
Room 207 A
Moderator: Ashwani Shukla, Pacific Northwest National Laboratory.
Presenters: Angela Dartt, Washington University in St. Louis; Jan Eggum, CSS; Paterick Thayn, Pacific Northwest National Laboratory.

Full session descriptions may be found in the mobile app. Events take place at the Music City Center unless otherwise noted.

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Monday, May 23 Sessions

Student Poster Session Author Attend Time
2nd Floor Prefunction

See pages 56–58 for posters on these topics. For a full list of co-authors and detailed abstracts, see AIHce EXP 2022 website.

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

5:30 p.m.–6:30 p.m.
Sunset Session: The Critical Role of OEHS Professionals in Successful Emergency Planning and Preparedness
Room 202 A
Moderator: Karen Jones, Gulf Coast HSE Consulting Services, Inc.
Presenters: Laura Weems, US Army Corps of Engineers; Eugene Satrun, Satrun OHS Consulting; Dana Stahl, Seattle Public Library.

Click on the course or session title to get to the full description.

EXP+: Your Conference, EXPanded
Keep that AIHce EXP glow all year long with EXP+, AIHA’s exclusive conference channel. Access content extras like interviews, behind-the-scenes information, activity updates, and more.

Whether you’ve attended in the past or have never joined us before, this is a way for you, as an industrial hygienist/occupational and environmental health and safety professional, to stay in touch with the conference vibe all year long. Subscribe to this channel so you don’t miss the next episode!

What you’re going to find is a lot of little things that you might miss because you’re really involved with the education, networking, and exhibitors that are at the conference every year. We want to share those with you all year long, so you’ll find topic discussions with some of your favorite speakers, hot topics of the time and future topics that might be of interest down the line, tips about making your conference experience better, and insider information on the host city so you can maximize your enjoyment while you’re there.

Welcome to EXP+... your conference, EXPanded.
Help us reach our goal of raising $20,000 in scholarships for deserving OEHS students!

Join us for a 5K run/walk that benefits AIHF scholarship recipients:

- Donate $40 for individuals
- Contribute up to $170 for groups
- Sleep-in and donate $35

Add the AIHF Fun Run to your AIHce EXP registration today!

Thank You to Our Generous Sponsors

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Silver
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LEARN MORE
Tuesday, May 24 At A Glance

6:30 a.m.–7:30 a.m.
- AIHA Real Time Detection Systems Committee Meeting, Omni, Legends Ballroom F
- AIHA Toxicology Committee Meeting, Omni, Legends Ballroom G

6:30 a.m.–8:00 a.m.
- AIHF’s 36th Annual Fun Run/Walk, Shuttles will depart from 2nd Floor entrance to MCC on 6th Avenue

7:00 a.m.–5:00 p.m.
- Registration, Lobby, 2nd Floor

7:00 a.m.–5:15 p.m.
- Speaker Ready Room, Room 201 A

8:00 a.m.–9:00 a.m.
- E1: Research Roundup: Climate Change 1, Room 102 A
- E2: Research Roundup: Aerosols 3, Room 202 A
- E3: AIHA LAP’s Plans for Accredited Sampling, Room 209 A
- E4: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 1, Room 103 A
- E5: Challenges and Opportunities for Women With Families Arising From COVID-19, Room 205 A

8:00 a.m.–5:30 p.m.
- The Nexus Lounge for Students and Early Career Professionals, Room 208 A

9:00 a.m.–9:15 a.m.
- Continue the Conversation - E9: Science and Power of Stories Affects Risk Perceptions, 1st Floor Prefunction between Rooms 102 and 104

9:00 a.m.–9:55 a.m.
- E1: Research Roundup: Climate Change 1, Room 102 A
- E2: Research Roundup: Aerosols 3, Room 202 A
- E3: AIHA LAP’s Plans for Accredited Sampling, Room 209 A
- E4: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 1, Room 103 A
- E5: Challenges and Opportunities for Women With Families Arising From COVID-19, Room 205 A

8:00 a.m.–8:25 a.m.
- Data Stewardship for Product Stewards
  Presenter: Ruth Donlon, Sphera

8:30 a.m.–8:55 a.m.
- Heat Safety in the Workplace
  Presenters: Margaret Morrissey; Gabrielle Brewer, Korey Stringer Institute

10:00 a.m.–10:25 a.m.
- Ask an IH Laboratory
  Presenter: Laura Parker, ALS Environmental

10:30 a.m.–10:55 a.m.
- There’s an App for That
  Presenter: Mark Rollins, A-EHS

11:00 a.m.–11:25 a.m.
- Dealing With Heat at a Construction Site
  Presenter: Philip Pederson, Consultant

11:30 a.m.–11:55 a.m.
- Preventing Ergonomics Program Failure
  Presenter: James McGlothin, McGlothin Ergonomics, LLC

2:00 p.m.–2:25 p.m.
- Managing IEQ in a Variable Future
  Presenters: Chris James, Trane Technologies; Jack Springston, Atlas Technical Consultants

2:30 p.m.–2:55 p.m.
- Mental Health in the Workplace—Taboo or Recognized Risk?
  Presenter: Brad Jones, LyondellBasell

3:00 p.m.–3:25 p.m.
- Safe Handling of Investigational Medications
  Presenters: Linette Leador, Tina Henderson, University of Texas MD Anderson Cancer Center

3:30 p.m.–3:55 p.m.
- Case Studies in Ventilation Controls
  Presenter: Carl Farley, Utah State University

4:00 p.m.–4:25 p.m.
- ATP Testing for Cleaning Procedure Verification
  Presenter: Alan Lloyd, Pennoni Associates, Inc.

Pop-Up Education and Health & Wellness Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Pop-up Education</th>
<th>Health and Wellness</th>
</tr>
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</table>
| 8:00 a.m.–8:25 a.m. | Data Stewardship for Product Stewards  
  Presenter: Ruth Donlon, Sphera | Relaxation Techniques in the Workplace  
  Presenter: Small World Yoga |
| 8:30 a.m.–8:55 a.m. | Heat Safety in the Workplace  
  Presenters: Margaret Morrissey; Gabrielle Brewer, Korey Stringer Institute | Chair Yoga (Yoga at Your Desk)  
  Presenter: Small World Yoga |
| 10:00 a.m.–10:25 a.m. | Ask an IH Laboratory  
  Presenter: Laura Parker, ALS Environmental | Intro to Meditation  
  Presenter: Small World Yoga |
| 10:30 a.m.–10:55 a.m. | There’s an App for That  
  Presenter: Mark Rollins, A-EHS | It All Begins With the Breath  
  Presenter: Bruce Kelly |
| 11:00 a.m.–11:25 a.m. | Dealing With Heat at a Construction Site  
  Presenter: Philip Pederson, Consultant | Anti-Anxiety Toolbox  
  Presenter: Bruce Kelly |
| 11:30 a.m.–11:55 a.m. | Preventing Ergonomics Program Failure  
  Presenter: James McGlothin, McGlothin Ergonomics, LLC | Tapping  
  Presenter: Bruce Kelly |
| 2:00 p.m.–2:25 p.m. | Managing IEQ in a Variable Future  
  Presenters: Chris James, Trane Technologies; Jack Springston, Atlas Technical Consultants | It All Begins With the Breath  
  Presenter: Bruce Kelly |
| 2:30 p.m.–2:55 p.m. | Mental Health in the Workplace—Taboo or Recognized Risk?  
  Presenter: Brad Jones, LyondellBasell | Anti-Anxiety Toolbox  
  Presenter: Bruce Kelly |
| 3:00 p.m.–3:25 p.m. | Safe Handling of Investigational Medications  
  Presenters: Linette Leador, Tina Henderson, University of Texas MD Anderson Cancer Center | Tapping  
  Presenter: Bruce Kelly |
| 3:30 p.m.–3:55 p.m. | Case Studies in Ventilation Controls  
  Presenter: Carl Farley, Utah State University | Introduction to Hypnosis  
  Presenter: Bruce Kelly |
| 4:00 p.m.–4:25 p.m. | ATP Testing for Cleaning Procedure Verification  
  Presenter: Bruce Kelly |

Full session descriptions may be found in the mobile app. Events take place at the Music City Center unless otherwise noted.
Tuesday, May 24 At A Glance

### Innovation Station Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Sponsor</th>
<th>Exhibit Hall Aisle 400</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00 a.m.–10:00 a.m.</td>
<td>LIFEBOOSTER</td>
<td>How Multi-Point Wearable Systems Enable All-in-One Risk Assessments</td>
</tr>
<tr>
<td>11:30 a.m.–11:55 a.m.</td>
<td>nanozen</td>
<td>Moving Personal Particle Monitoring into Operational</td>
</tr>
<tr>
<td>12:05 p.m.–12:30 p.m.</td>
<td>ABET</td>
<td>Why Become an ABET Program Evaluator?</td>
</tr>
<tr>
<td>12:40 p.m.–1:05 p.m.</td>
<td>STAT PEEL</td>
<td>Material-Specific Monitoring of Workplace Aerosol Exposure</td>
</tr>
<tr>
<td>1:15 p.m.–1:40 p.m.</td>
<td>CASELLA</td>
<td>Advances in High Flow Pumps and Wireless Connectivity</td>
</tr>
<tr>
<td>2:00 p.m.–2:25 p.m.</td>
<td></td>
<td>Future Ready: How Emerging Technology Can Innovate Industrial Hygiene</td>
</tr>
</tbody>
</table>

### AIHA Main Stage Schedule

**All held in the Exhibit Hall, AIHA Booth 925**

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00 a.m.–11:30 a.m.</td>
<td>AIHF Board of Trustees Meeting, Omni, Gibson Ballroom</td>
</tr>
<tr>
<td>10:00 a.m.–12:30 p.m.</td>
<td>Career Advantage Fair Mock Interviewing, Room 206 B</td>
</tr>
<tr>
<td>11:00 a.m.–11:15 a.m.</td>
<td>Continue the Conversation - F10: Conquer Your Career Path, 2nd Floor Prefunction between Rooms 203 and 206</td>
</tr>
<tr>
<td>11:15 a.m.–12:15 p.m.</td>
<td>F1: Research Roundup: Indoor Environmental Quality 1, Room 103 A</td>
</tr>
<tr>
<td></td>
<td>F2: Research Roundup: Big Data 1, Room 102 A</td>
</tr>
<tr>
<td></td>
<td>F3: Survival of Staphylococcus aureus and Pseudomonas aeruginosa on the Outer Shell of Fire Fighter Turnout Gear and Personal Protective Equipment After Sanitation in a Commercial Washer/Extractor, Room 209 A</td>
</tr>
<tr>
<td></td>
<td>F4: Celebrating Global AIHA Microgrant Recipients, Room 202 A</td>
</tr>
<tr>
<td></td>
<td>F5: Opioids and Cannabis, Part 2, Room 106 A</td>
</tr>
<tr>
<td></td>
<td>F6: Effective Communication in the Time of Big Data, Artificial Intelligence, and Machine Learning, Room 105 A</td>
</tr>
<tr>
<td></td>
<td>F7: Emerging Issues and the Future of Work, Part 1, Room 105 A</td>
</tr>
</tbody>
</table>

**Sessions marked with ☑️ will be broadcast for Virtual AIHce EXP.**

**Sessions marked with ⚠️ are included in OnDemand.**

**Sessions, schedule, and inclusion in OnDemand are subject to change.**
Tuesday, May 24 At A Glance

11:15 a.m.–12:15 p.m.
- G9: Semi-Quantitative Risk Analysis to Derive Controls Using Layer of Protection Analysis (LOPA), Room 207 A
- G10: Odorant Occupational Hazards in Municipal Resource Recovery Facilities, Room 207 C
- Poster Session 2 – Author Attend Time, 2nd Floor Prefunction

12:30 p.m.–1:30 p.m.
- NIOSH Table Topics, Exhibit Hall, End of 1000 Aisle

1:00 p.m.–3:00 p.m.
- Career Advantage Fair Résumé Critiquing, Room 206 B

2:00 p.m.–4:00 p.m.
- JOEH LLC Board Meeting, Omni, Gibson Ballroom

3:00 p.m.–4:00 p.m.
- Career Advantage Fair Speed Networking, 4th Floor Lobby

3:00 p.m.–4:30 p.m.
- Local Sections Business Meeting (Hosted by LSAG), Omni, Cumberland 1

3:15 p.m.–4:15 p.m.
- I1: Research Roundup: Safety, Room 105 A
- I2: Research Roundup: Noise, Room 207 A
- I3: Research Roundup: Respiratory Protection 1, Room 103 A
- I4: Results of a NIOSH Health Hazard Evaluation of Styrene Exposures During Cured-in-Place Pipe Liner Preparation and Installation Using Hot Water and Steam Curing Techniques, Room 102 A
- I5: Fostering Industrial Hygiene Programs at a Safety Company, Room 104 A
- I6: Validation of OHS Controls and Emerging Technologies to Reduce Risk, Room 205 A
Tuesday, May 24 At A Glance

6:00 p.m.–7:30 p.m.
- AIHA Career and Employment Services Committee, Omni, Broadway Ballroom A
- AIHA Incident Preparedness and Response Working Group Meeting, Omni, Broadway Ballroom D
- AIHA Thermal Stress Working Group, Omni, Broadway Ballroom J

6:30 p.m.–7:30 p.m.
- AIHA Emerging Digital Technologies Committee, Omni, Mockingbird 2
- AIHA Social Concerns Committee, Omni, Legends Ballroom F
- AIHA Volunteer Groups Awards Task Force, Omni, Mockingbird 3
- AIHA Stewardship and Sustainability Committee Meeting, Omni, Broadway Ballroom H

6:30 p.m.–8:00 p.m.
- AIHA Indoor Environmental Quality Committee, Omni, Broadway Ballroom G

6:45 p.m.–8:45 p.m.
- AIHA Named Awards Dinner (by invitation only), Omni, Cumberland 5

7:00 p.m.–7:30 p.m.
- AIHA Nano and Advanced Materials Working Group Meeting, Omni, Broadway Ballroom B

7:00 p.m.–8:00 p.m.
- AIHA Construction Committee, Omni, Broadway Ballroom C

7:00 p.m.–8:30 p.m.
- AIHA Leadership and Management Committee Meeting, Omni, Broadway Ballroom K

Click on the course or session title to get to the full description.

View www.aihceexp.org for full descriptions of PDCs, education sessions, and poster sessions along with contact hours and value adds.
In tandem with AIHce EXP, AIHA University is offering deep discounts on select education offerings.

- Top 20 Publications
- Top 10 eLearning
- New Releases
- Fall 2022 Virtual PDCs

EXCLUSIVE DISCOUNTS
MAY 20 – JUNE 30

20% discount and free shipping promotion available May 20 – June 30, 2022 and applies to select eLearning and print, PDF, and KIT versions for select publications.

Visit AIHA booth #925 for more information or shop online!

Apply promo code CONF22 to save big!
Tuesday, May 24 Sessions

8:00 a.m.–9:00 a.m.

E1: Research Roundup: Climate Change I
Room 102 A
Moderator: Emily Curtis, Maul Foster & Alongi, Inc.
8:00 a.m.–8:30 a.m.
After the Wildfires — The Massive Undertaking to Cleanup Each Property and Return Them to the Owner for Rebuilding
Presenter: Sylvia Fontes, Forensic Analytical Consulting.
8:30 a.m.–9:00 a.m.
After the Wildfires — Managing Large-Scale Cleanup Operations
Presenter: Bill Beadie, Maul Foster & Alongi, Inc.

E2: Research Roundup: Aerosols 3
Room 202 A
Moderator: Laura Weems, US Army Corps of Engineers.
8:00 a.m.–9:00 a.m.
Use of DNA-tagged liquid tracer aerosols to simulate the emission, transport, and management of respiratory aerosols in buildings.
Presenter: Nicholas Clements, University of Colorado Boulder.

E3: AIHA LAP’s Plans for Accredited Sampling
Room 209 A
Moderator/Presenter: Cheryl Morton, AIHA Laboratory Accreditation Programs, LLC.

E4: Interesting and Unusual NIOSH Health Hazard Evaluations, Part I
Room 103 A
Moderator: Scott Brueck, CDC/NIOSH.
Presenter: Eric Glassford, Michael Grant, CDC/NIOSH.

E5: Challenges and Opportunities for Women With Families Arising From COVID-19
Room 205 A
Moderator/Presenter: Penney Stanch, Stanch Worker Health LLC.
Presenter: James McGlathlin, McGlathlin Ergonomics.

E6: Lights, Camera, COVID-19
Room 105 A
Moderator: Jodi Johnson, BluMetric Environmental.
Presenter: Lydia Renton, BluMetric Environmental; Khara Huhta, BSI Consulting Services.

E7: Climate Change Challenges and Opportunities for OH&S
Room 106 A
Moderator: David Roskelley, R&R Environmental, Inc.
Presenter: Michael Larranaga, R.E.M. Risk Consultants; John Comiskey, Monmouth University; Brenda Jacklitsch, NIOSH.

E8: Process Safety Management/Risk Management Program Compliance Audit Success and Failure
Room 207 A
Moderator/Presenter: Timothy Stirrup, Parvati Consulting LLC.
Presenter: Kelsey Forde, Parvati Consulting LLC.

E9: Science and Power of Stories Affects Risk Perceptions
Room 104 A
Moderator/Presenter: Jonathan Klane, Lab Manager Magazine.

E10: Strategies to Apply and Successfully Sit for the CIH Exam
Room 207 C
Moderator: Melanie Cady, Amphenol Aerospace.
Presenter: Margretta Murphy, SEAM Group; Katie Martin, Mission Support and Test Services, LLC.

Learning Pavilion
Methods to Collect and Present Performance Metrics for Industrial Hygiene Programs by VelocityEHS
Show Office B, Level 3M outside Exhibit Hall B

See page 34 for the Innovation Station schedule.

Click on the course or session title to get to the full description.

Full session descriptions may be found in the mobile app.
Events take place at the Music City Center unless otherwise noted.
Tuesday, May 24 Sessions

10:00 a.m.–11:00 a.m.

F1: Research Roundup: Climate Change 2
Room 102 A
Moderator: Debra Corbin, SAIF Corporation.
10:00 a.m.—11:00 a.m.
After the Wildfires — Conducting Asbestos Surveys, Air Monitoring, and Soil Sampling
Presenter: Bill Beadie, Maul Foster & Alongi, Inc.

F2: Research Roundup: Aerosols 4
Room 207 A
10:00 a.m.—10:30 a.m.
Ambient PM2.5 Environmental Monitoring in Beijing with an Optical Particle Counter (OPC)
Presenter: Winnie Chu, Nanozen Industries Inc., Canada.
10:30 a.m.—11:00 a.m.
Misalignment Between Clinical Mold Antigen Extracts and Airborne Molds Found in Water-Damaged Homes
Presenter: Michael Berg, Eurofins Built Environment.

F4: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 2
Room 103 A
Moderator: Scott Brueck, CDC/NIOSH.
Presenters: Jessica Li, Michael Grant, CDC/NIOSH.

F5: Opioids and Cannabis, Part I
Room 106 A

F6: Steps to Define and Execute a National Strategy for Elastomeric Half-Mask Respirators (EHMR) in Healthcare
Room 202 A
Moderator: Lee Greenwald, CDC/NIOSH/NPPTL. Presenters: Emily Haas, NIOSH; Sara Angelilli, Hope Waltenbaugh, Allegheny Health Network.

F7: Possibilities and Challenges With Sustainable Development Goals
Room 205 A
Moderator/Presenter: Chris Laszcz-Davis, The Environmental Quality Organization, LLC. Presenters: Andrea Hiddinga, AHOH-Projects; Marianne Levitsky, ECOH and Workplace Health Without Borders.

F8: Emerging Issues and the Future of Work, Part I
Room 105 A
Moderator/Presenter: Jay Vietas, NIOSH.
Presenters: Lisa Delaney, Kathleen Navarro, NIOSH.

F9: The Role of the OHS Professional in TV, Film, and News Productions
Room 104 A

F10: Conquer Your Career Path
Room 207 C
Moderator: Joy Jacobsen, Amsted Rail.
Presenter: Jenn Holliday, 3M.

11:15 a.m.–12:15 p.m.

G1: Research Roundup: Indoor Environmental Quality I
Room 104 A
Moderator: Chuck Jenkins, National Safety Council
11:15 a.m.–11:45 a.m.
A Comparison of Wet Wipe and Tape Lift Methods for Sampling Surfaces Impacted by Wildfire Smoke
Presenter: Franco Seif, Clark Seif Clark, Inc.
11:45 a.m.–12:15 p.m.
Concentrations of Combustion By-Products in Settled Dusts From California Wildfires
Presenter: Tianbao Bai, Eurofins CEI, Inc.

Click on the course or session title to get to the full description.
Tuesday, May 24 Sessions

G2: Research Roundup: Big Data I
Room 102 A
11:15 a.m.–11:45 a.m.
Big Data and Exposure Risk Assessment in the USAF
Presenter: Thomas Webster, United States Air Force.
11:45 a.m.–12:15 p.m.
Exposure Assessment and Control — Missed Opportunities
Presenter: Tom Morris, Morris Innovative IH & Safety Solutions, LLC.

G3: Survival of Staphylococcus aureus and Pseudomonas aeruginosa on the Outer Shell of Fire Fighter Turnout Gear and Personal Protective Equipment After Sanitation in a Commercial Washer/Extractor
Room 209 A
Moderator: Michael Henderson, HETI.
Presenters: Daniel Farcas, HETI.

G4: Celebrating Global AIHA Microgrant Recipients
Room 202 A
Moderator: Thomas Fuller, Illinois State University.
Presenters: Steven Thygerson, Brigham Young University; Vanessa Resende Nogueira Cruvinel, University of Brasilia, Brazil.

G5: Opioids and Cannabis, Part 2
Room 106 A
Moderator: Robert Kirkby, Michigan State Police.
Presenters: Robert Kleinerman, Kleinerman & Associates Environmental Health & Safety, LLC; Russell Kamer, Partners In Safety.

G6: Effective Communication in the Time of Big Data, Artificial Intelligence, and Machine Learning
Room 105 A
Moderator/Presenter: Blake McGowan, VelocityEHS.
Presenter: Dave Risi, VelocityEHS.

G8: Emerging Issues and the Future of Work, Part 2
Room 103 A
Moderator: Jay Vietas, NIOSH.
Presenters: Kevin L. Dunn, Tyler Quinn, Aaron Sussell, Emily Haas, NIOSH.

G9: Semi-Quantitative Risk Analysis to Derive Controls Using Layer of Protection Analysis (LOPA)
Room 207 A
Moderator/Presenter: Kelsey Forde, Parvati Consulting LLC.
Presenter: Timothy Stirrup, Parvati Consulting LLC.

G10: Odorant Occupational Hazards in Municipal Resource Recovery Facilities
Room 207 C
Presenter: Christopher Madrigal, UCLA

Poster Session 2
Author Attend Time
2nd Floor Prefunction
Topics: Aerosols & Airborne Particulates, Engineering Controls and Ventilation, Hazard Recognition/Exposure Assessment, Indoor Environmental Quality/Indoor Air Quality, Sampling and Analysis
See page 58 for posters on these topics. For a full list of co-authors and detailed abstracts, see AIHce EXP 2022 website.

Expo Hall Activities
12:30 p.m.–1:30 p.m.
NIOSH Table Topics
End of 1000 Aisle
Moderators: Kendra Broadwater, Jessica Li, Jonathan Bach, Aaron Sussell, Brenda Jacklitsch, Dru Burns, Ryan LeBouf, Emaulele Cauda, Gretchen Petery, Emily Haas, Lee Greenawald, NIOSH.
See pages 62–63 for food, activities, and more happening in the Expo Hall throughout the day.
See page 34 for the Innovation Station schedule.

Click on the course or session title to get to the full description.

Sessions marked with 🎧 will be broadcast for Virtual AIHce EXP.
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Tuesday, May 24 Sessions

2:00 p.m.–3:00 p.m.

H1: Research Roundup 1: Lab Health and Safety
Room 207 A
Moderator: Stacey Croghan, Labyrinth Solutions, LLC.
2:00 p.m.–2:30 p.m.
Control of Formaldehyde Exposure in an Academic Anatomy Lab
Presenter: Matt Lundquist, University of Utah.
2:30 p.m.–3:00 p.m.
Lab Equipment Hazard Analysis — Designing to Reduce Risk in a Fast-Paced R&D Environment
Presenter: Margaret Hughes, Intel Corporation.

H2: Research Roundup: Hazard Recognition and Exposure Assessment 3
Room 103 A
Moderator: Aurora Le, University of Michigan School of Public Health.
2:00 p.m.–2:30 p.m.
Assessing Operator Exposures to Biological Agents at a Sewage Treatment Plant — Challenges and Lessons Learned
Presenter: Craig Maunder, Stantec Consulting Ltd., Canada.

H3: Hazards and Exposure Risks of British Columbia Wildfire Firefighters
Room 102 A
Moderator/Presenter: Mona Shum, Aura Health and Safety Corporation, Canada.

H4: Occupational Hazards in Seattle’s Strip Clubs
Room 105 A
Moderator: Miyoko Sasakura, Washington State Department of Labor and Industries.
Presenters: Eva Glosson, Venetia Runnion, Washington State Department of Labor and Industries.

H5: Leveraging Global OEHS and Public Health Partnerships During the Pandemic
Room 106 A
Moderator: Chris Laszcz-Davis, The Environmental Quality Organization, LLC.
Presenters: Mary O’Reilly, University at Albany School of Public Health/Workplace Health Without Borders; Richard Hirsh, Nektar Therapeutics; Alan Leibowitz, EHS Systems Solutions, LLC.

H6: How Big Data, AI, and ML Are Changing the EHS Profession
Room 104 A
Moderator: Jennifer Sinkwitts, VelocityEHS.
Presenter: Dave Risi, VelocityEHS.

H7: A Holistic Approach to Facility and Worker Health and Safety in a World of Rising Tides and Shifting Weather Patterns
Room 209 A
Moderator: Erin Kane, Apex Companies, LLC.
Presenters: Nicole Bouquet, Pete Granholm Apex Companies, LLC.

H8: Movie Matinee, Part I — Building the American Dream (Movie Viewing)
Room 205 A
Moderator: Kathie Lavaty, ESi.

H10: Decoding the Alphabet Soup
Room 207 C
Moderator/Presenter: Timothy Stirrup, Parvati Consulting LLC.
Presenter: Kelsey Forde, Parvati Consulting LLC.

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Tuesday, May 24 Sessions

3:15 p.m.–4:15 p.m.

II: Research Roundup: Changing Workplace
Room 105 A
3:15 p.m.–3:45 p.m.
Development of OH Training Modules — Benefits and Barriers to Implementing Training Recommendations Among Vietnamese Owners and Workers
Presenter: Tran Huynh, Drexel University.
3:45 p.m.–4:15 p.m.
OHS Initiative for Workers and Community — Innovative and Effective Training Program with Women Garment Workers in Bangladesh
Presenter: Garrett Brown, Maquiladora Health and Safety Support Network.

3:45 p.m.–4:15 p.m.

I2: Research Roundup: Hazard Recognition and Assessment 4
Room 202 A
Moderator: Roxy Grossnickle, NIH.
3:15 p.m.–3:45 p.m.
Comparison Between EPA UV Index App and UV Monitoring — Assessing Risk for Solar UV Exposure in Agricultural Settings
Presenter: Jo Anne Balanay, East Carolina University.
Perspectives From the Field — Results From a U.S. Exposure Assessment and Epidemiological Study on Carbon Nanotube and Nanofiber Workers
Presenter: Matthew Dahm, NIOSH.

I4: A Risk Assessment Approach to Surface Contamination Under USP 800
Room 102 A
Moderator: Amy Snow, GSK.
Perspectives: Janet Gould, SafeBridge; Matthew Meiners, Bureau Veritas; Elaine Strauss, WorkingBuildings.

I3: Research Roundup: Emergency Preparedness
Room 104 A
Moderator: Penelope Pietrowski, DHS
3:15 p.m.–3:45 p.m.
Bacterial Shedding From Healthcare Workers Wearing PAPRs and Air-Purifying Respirators in a Simulated Operating Room
Presenter: Ziqing Zhuang, NIOSH/NPPTL.

I5: Recognizing Potential Exposures to Biological Hazards and Avoiding the Resultant Injury and Illnesses
Room 106 A
Moderator/Presenter: Michael Goldman, ECS Limited.

I6: An Integrated Prevention Through Design Approach to Hazard Analysis
Room 209 A
Moderator/Presenter: Timothy Stirrup, Parvati Consulting LLC. Presenter: Kelsey Forde, Parvati Consulting LLC.

I8: Movie Matinee, Part 2 — Building the American Dream (Movie Discussion)
Room 205 A
Moderator: Kathie Lavaty, ESI. Presenter: Chelsea Hernandez, Documentary Producers Alliance.

I9: Why Don’t We See the Things That Can Hurt Us?
Room 103 A

Click on the course or session title to get to the full description.

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Tuesday, May 24 Sessions

J1: Characterization of Fugitive Emissions Produced From Compact Laser Cutting
Room 207 C
Moderator: Candace Sujung Tsai, UCLA.
Presenter: Alejandro Munoz, UCLA.
4:30 p.m.–5:30 p.m.

J2: Research Roundup: Noise
Room 207 A
Identification of Complex Noise Sources at Workplaces — An Acoustical Camera Approach
Presenter: Samuel Pendyala, WSP USA.

J3: Research Roundup: Respiratory Protection I
Room 103 A
Moderator: Linh Phan, Standford University.
4:30 p.m.–5:30 p.m.
Presenter: Joselito Ignacio, DHS/FEMA.

J4: Results of a NIOSH Health Hazard Evaluation of Styrene Exposures During Cured-in-Place Pipe Liner Preparation and Installation Using Hot Water and Steam Curing Techniques
Room 102 A
Moderator/Presenter: Dru Burns, CDC/NIOSH. Presenter: Ryan LeBouf, CDC/NIOSH.

J6: Fostering Industrial Hygiene Programs at a Safety Company
Room 104 A
Moderator/Presenter: Margretta Murphy, SEAM Group.

J8: Validation of OHS Controls and Emerging Technologies to Reduce Risk
Room 205 A
Moderator: Rod Harvey, RHO Risk Management, Inc.
Presenters: Frank Pagone, Benjamin Heckman, Jacob Persky, RHP Risk Management Inc.

J9: Topics in Workforce Diversity and Inclusion in a Post-Pandemic World
Room 106 A
Moderator/Presenter: Silvia Maberti, ExxonMobil Biomedical Sciences.
Presenters: Gretchen Petery, Michael Flynn NIOSH; Subena Colligan, S. Colligan Coaching.

J10: Potential Determinants of Pneumoconiosis Resurgence in Central Appalachia Underground Coal Miners
Room 207 C
Presenter: John-Paul Angulo, UCLA.

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Events take place at the Music City Center unless otherwise noted.
Workers depend on you to keep them safe.

Depend on TSI® for the insights to ensure workplace safety and compliance.

Let’s build a strong health & safety program together

Meet us at Booth #825
Wednesday, May 25

At A Glance

6:00 a.m.–7:30 a.m.
- AIHA Opioids Working Group Meeting, Omni, Music Row 4
- Namaste With AIHA, Omni, Music Row 2

6:30 a.m.–7:15 a.m.
- AIHA Protective Clothing and Equipment Committee, Omni, Legends Ballroom A

6:30 a.m.–8:00 a.m.
- AIHA Protective Clothing and Equipment Committee, Omni, Legends Ballroom A

7:00 a.m.–3:00 p.m.
- Speaker Ready Room, Room 201 A

7:30 a.m.–4:00 p.m.
- Registration, Lobby, 2nd Floor

8:00 a.m.–9:00 a.m.
- Volunteer Groups Awards Task Force Focus Group Session (by invitation only) Omni, Music Row 3

K2: Inhalation and Dermal Exposures During Binder Jetting and Photopolymerization Methods of Additive Manufacturing, Room 209 A

K3: Interesting OSHA Health Cases — Facts From the Field, Part 1, Room 103 A

K4: Confined Spaces Flammable Toxic Spray Painting Precautions, Room 105 A

K5: The Fellows SIG Debate, Part 1 — Do Our Membership Organizations Exist to Serve Their Memberships or Public Health Needs?, Room 205 A

K6: Pros and Cons of PCR Analysis in Legionella Sample Analysis and Data Interpretation, Room 204 A

K7: Assessing Warehouse Fires Using Common Industrial Hygiene Principles, Room 202 A

K8: Ethics in Risk Management, Part 1, Room 106 A

K9: Challenges in Development and Selection of the Right EH&S Management Software for You, Room 207 C

K10: An Industrial Hygienist’s Perspective of COVID-19 Lessons Learned, Room 102 A

AIHA-ACGIH Interaction Committee Meeting (by invitation only), Omni, Gibson Ballroom

Sessions marked with ☀️ will be broadcast for Virtual AIHce EXP. Sessions marked with 🌟 are included in OnDemand.

Sessions, schedule, and inclusion in OnDemand are subject to change.

Pop-Up Education and Health & Wellness Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Pop-up Education</th>
<th>Health and Wellness</th>
</tr>
</thead>
</table>
| 8:30 a.m.–8:55 a.m. | Gameplay to Understand Social Determinants of Health  
  Presenter: Rolando Favela, University of Illinois Chicago |                      |
| 9:00 a.m.–9:25 a.m. | Complying with EPA’s Risk Management Plan  
  Presenter: Mark Rollins, A-EHS | Relaxation Techniques in the Workplace  
  Presenter: Small World Yoga |
| 9:30 a.m.–9:55 a.m. | Low-Cost Noise Exposure Reductions in Construction  
  Presenter: Eugene Satrun, Satrun OHS Consulting LLC | Intro to Meditation  
  Presenter: Small World Yoga |
| 10:00 a.m.–10:25 a.m. | Injecting Life Into Assessing Morticians’ Formaldehyde Exposures  
  Presenter: Laura Allen, Cardno ChemRisk | Chair Yoga (Yoga at Your Desk)  
  Presenter: Small World Yoga |
| 10:30 a.m.–10:55 a.m. | Your Questions Answered About Confined Spaces  
  Presenters: Janet Keyes, CHESS, Inc.; Robert Henderson, GfG Instrumentation, Inc.; Matt Macomber, Colden Corporation |                      |
| 1:00 p.m.–1:25 p.m. | Are Indoor Air Quality Management Plans Necessary?  
  Presenter: Odin Ansari, EA Engineering, Science, and Technology, Inc., PBC | Tapping  
  Presenter: Bruce Kelly |
| 1:30 p.m.–1:55 p.m. | Should I Consider Working Internationally?  
  Presenters: Carl Salt, WSP; Adelmarie Bones, WSP Golder; Andreas Wagner, Golder Associates USA Inc. | Introduction to Hypnosis  
  Presenter: Bruce Kelly |
| 2:00 p.m.–2:25 p.m. | Reducing Injuries and Fatalities With Sensor Technologies  
  Presenter: Robert Thomma, Bodytrak | Practicing Self-Hypnosis  
  Presenter: Bruce Kelly |
| 2:30 p.m.–2:55 p.m. | Characterizing Hazards Associated With 3D Printer Emissions  
  Presenters: Sung Ho Kim; Haedong Park, Occupational Safety and Health Research Institute, Republic of Korea; Aleksandr Stefanaki, NIOSH. |                      |
| 3:00 p.m.–3:25 p.m. | Hearing Protection Fit Testing in Construction  
  Presenter: Sharath Smith, 3M |                      |

All times listed are Central.
Wednesday, May 25 At A Glance

8:00 a.m.–3:30 p.m.
- The Nexus Lounge for Students and Early Career Professionals, Room 208 A
9:00 a.m.–10:00 a.m.
- AIHA Standards of Care Initiative, Omni, Cumberland 1
9:00 a.m.–12:00 p.m.
- Career Advantage Fair Résumé Critiquing, Room 206 B
9:00 a.m.–4:00 p.m.
- Exhibit Hall Open, Exhibit Halls A and B
9:00 a.m.–1:00 p.m.
- Career Advantage Fair, Room 206 B
9:15 a.m.–10:15 a.m.
- Research Roundup: Ergonomics 2, Room 102 A
- L2: Research Roundup: Hazard Recognition, Room 209 A
- L3: Interesting OSHA Health Cases — Facts From the Field, Part 2, Room 103 A
- L4: Reduction of Clostridioides Difficile Spores Using Titanium and Zinc Nanocomposite, Room 207 A
10:30 a.m.–11:30 a.m.
- M2: Research Roundup: Chemical Hazards, Room 205 A
- M3: Interesting OSHA Health Cases — Facts From the Field, Part 3, Room 103 A
- M4: Confined Space Violations Found by Tennessee OSHA, Room 105 A
- M5: Re-Evaluating Occupational Health and Safety in a Post-Pandemic World, Room 106 A
- M6: Ensuring Compliance With the Requirements of NFPA 652 Standard on Combustible Dust, and What’s Next, Room 202 A
12:00 p.m.–1:00 p.m.
- Human Capital/ESG Task Force, Omni, Music Row 1
12:00 p.m.–2:00 p.m.
- Conference Program Committee Luncheon Meeting (by invitation only), Omni, Old Hickory
1:00 p.m.–2:00 p.m.
- N1: Research Roundup: Big Data 2, Room 202 A
- N2: Research Roundup: Hazard Recognition and Exposure Assessment 5, Room 103 A

Sessions marked with 📺 will be broadcast for Virtual AIHce EXP.
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Click on the course or session title to get to the full description.

Full session descriptions may be found in the mobile app. Events take place at the Music City Center unless otherwise noted.
Wednesday, May 25 At A Glance

1:00 p.m.–2:00 p.m.

- N10: A Multidisciplinary Approach to the Implementation of Respiratory Protection Programs in Healthcare Facilities During the COVID-19 Pandemic, Room 105 A
- Defining the Science Open Forum, Omni, Cumberland 1

1:00 p.m.–3:00 p.m.

- Career Advantage Fair Résumé Critiquing, Room 206 B

2:15 p.m.–3:15 p.m.

- O1: Research Roundup: Risk Assessment 3, Room 207 A
- O2: Research Roundup: Hazard Recognition and Exposure Assessment 6, Room 209 A
- O4: The Nature of Electrostatic Spark Hazards and Practical Measures for Control, Room 105 A
- O5: Canadian and U.S. Rollout of Breathe Freely Initiative to Prevent Occupational Lung Disease, Room 106 A
- O6: Qualitative Exposure Assessment Tool for Initial Screening, Room 102 A
- O7: Chaos and Order in Air Contamination, Room 104 A
- O8: Hurricane Response During the COVID-19 Pandemic, Room 103 A
- O10: Aerosol Dispersion of Submicrometer Particles in an Aircraft Cabin, Room 202 A

3:30 p.m.–4:45 p.m.

Closing General Session

The Future of Occupational Safety and Health

James Frederick
Karl F. Dean
Ballroom ABC-S

Moderator:
Donna Heidel, Amazon.

4:45 p.m.–5:15 p.m.

- AIHA Annual Business Meeting, Omni, Legends Ballroom F

5:30 p.m.–6:30 p.m.

- AIHA Board of Directors Meeting (by invitation only), Omni, Legends Ballroom A

All times listed are Central.

Click on the course or session title to get to the full description.
Wednesday, May 25 Sessions

8:00 a.m.–9:00 a.m.

K2: Inhalation and Dermal Exposures During Binder Jetting and Photopolymerization Methods of Additive Manufacturing
Room 209 A
Presenters: Rebecca Burton, Kindeva Drug Delivery; Andrea Oleson, University of Minnesota.

K3: Interesting OSHA Health Cases—Facts From the Field, Part I
Room 103 A

K4: Conflned Spaces Flammable Toxic Spray Painting Precautions
Room 105 A
Moderator/Presenter: Arlen Siert, Xcel Energy.

K5: The Fellows SIG Debate, Part I — Do Our Membership Organizations Exist to Serve Their Memberships or Public Health Needs?
Room 205 A
Moderator/Presenter: Donald Munson Weekes, InAIR Environmental, Ltd., Canada. Presenters: Jennifer Sahmel, Insight Exposure and Risk Sciences; Carter Ficklin, NASA Langley Research Center; Torey Nalbone, University of Texas at Tyler; Michele Twilley, AIHA; Chris Laszcz-Davis, The Environmental Quality Organization, LLC; Timothy Paz, FEMA; Perry Logan, 3M.

K6: Pros and Cons of PCR Analysis in Legionella Sample Analysis and Data Interpretation
Room 104 A

K7: Assessing Warehouse Fires Using Common Industrial Hygiene Principles
Room 202 A

K8: Ethics in Risk Management, Part I
Room 106 A
Moderator: Charles Redinger, Institute for Advanced Risk Management. Presenters: Frederick Boelter, Boelter Risk Sciences and Engineering LLC; Mary O’Reilly, University at Albany School of Public Health/Workplace Health Without Borders; Glenn Barbi.

K9: Challenges in Development and Selection of the Right EH&S Management Software for You
Room 207 C
Moderator/Presenter: Mahdi Fahim, Joint School of Nanoscience and Nanoengineering. Presenter: Angela Dartt, Washington University in St. Louis.

K10: An Industrial Hygienist’s Perspective of COVID-19 Lessons Learned
Room 102 A
Moderator: Dyron Hamlin, GHD. Presenters: David Regelbrugge, Ben Chandler, GHD.

9:15 a.m.–10:15 a.m.

L1: Research Roundup: Ergonomics 2
Room 102 A
Moderator: Katia Costa Black, BSI EHS Services and Solutions. 
9:15 a.m.–9:45 a.m.
Semiconductor Computer Workstation Ergonomic Assessments With Occupational Exposure Banding
Presenter: Margaret Hughes, Intel Corporation.
9:45 a.m.–10:15 a.m.
The Interaction of CO2 Exposure, Workload, and Biomechanical Stresses on Heart Rate for Select Tasks in a Craft Brewery
Presenter: Dave Huizen, Grand Valley State University.
Wednesday, May 25 Sessions

L2: Research Roundup: Hazard Recognition
Room 209 A
Moderator: Peter Aspinall, WSP.
9:15 a.m.–9:45 a.m.
Electromagnetic Interference (EMI) survey for an Employee with a Brain-Implanted Hydrocephalus Shunt Valve
Presenter: Stuart Bagley, IAQ-EMF Consulting Inc.
9:45 a.m.–10:15 a.m
Developing Ozone Service Life Test Capability for PAPR Filters
Presenter: Erik Johnson, 3M.

L3: Interesting OSHA Health Cases—Facts From the Field, Part 2
Room 103 A

L4: Reduction of Clostridioides Difficile Spores Using Titanium and Zinc Nanocomposite
Room 207 A
Presenter: Peter Kim, University of Oklahoma Health Science Center.

L5: The Fellows SIG Debate, Part 2: Do Our Membership Organizations Exist to Serve Their Memberships or Public Health Needs?
Room 205 A
Moderator/Presenter: Donald Munson Weekes, InAIR Environmental, Ltd., Canada. Presenters: Jennifer Sahmel, Insight Exposure and Risk Sciences; Carter Ficklin, Nasa Langley Research Center; Torey Nalbone, University of Texas at Tyler; Michele Twilley, AIHA; Chris Laszcz-Davis, The Environmental Quality Organization, LLC; Timothy Paz, FEMA; Perry Logan, 3M.

L7: Basic Assessment Tools and Cost Justification Included in the IHI Performance Metrics’ Ergonomics Chapter
Room 204 A
Moderator: Penney Stanch, Stanch Worker Health LLC. Presenters: Ellen Gallo, Aon Global Risk Consulting; Susan Kotowski, University of Cincinnati.

L8: Ethics in Risk Management, Part 2
Room 106 A
Moderator: Charles Redinger, Institute for Advanced Risk Management. Presenters: Frederick Boelter, Boelter Risk Sciences and Engineering LLC; Mary O’Reilly, University at Albany School of Public Health/Workplace Health Without Borders; Glenn Barbi, Retired.

L9: Common Mistakes With the Application of a Risk Matrix
Room 207 C
Moderator/Presenter: Kelsey Forde, Parvati Consulting LLC. Presenter: Timothy Stirrup, Parvati Consulting LLC.

L10: Emergency Preparedness: Is the Workplace Truly Prepared for Emergencies?
Room 105 A
Moderator/Presenter: Douglas DeMoulin, University of Minnesota. Presenter: Don DeMoulin, ACE.

Expo Hall Activities
See pages 62–63 for food, activities, and more happening in the Expo Hall throughout the day.

10:30 a.m.–11:30 a.m.
M2: Research Roundup: Chemical Hazards
Room 205 A
Moderator: Laura Weems, US Army Corps of Engineers.
Laboratory Local Exhaust and Fume Hood Design, Selection, and Maintenance — Lessons Learned
Presenter: Mahdi Fahim, Joint School of Nanoscience and Nanotechnology.

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Wednesday, May 25 Sessions

M3: Interesting OSHA Health Cases—Facts From the Field, Part 3
Room 103 A
Moderator: Anthony Towey, Jr, U.S. DOL – OSHA.
Presenters: Luz Stella Bradley, Travis Stein, U.S. DOL–OSHA.

M4: Confined Space Violations Found by Tennessee OSHA
Room 105 A
Moderator: Bonnie Lockhart, Ameren.
Presenters: Kala Bailey, Tennessee OSHA.

M5: Re-Evaluating Occupational Health and Safety in a Post-Pandemic World
Room 106 A
Moderator/Presenter: Dean Frieders, Mobile-Med Work Health Solutions, Inc.
Presenter: Jeff Berry, Nike.

M6: Ensuring Compliance With the Requirements of NFPA 652 Standard on Combustible Dust, and What’s Next
Room 202 A
Moderator/Presenter: Vahid Ebadat, Stonehouse Process Safety.

M7: The State of Innovation in Ergonomics (MSD 2025)
Room 207 A
Moderator/Presenter: John Dony, National Safety Council.
Presenters: Lisa Brooks, National Safety Council; Rahul Semwal, Amazon.

M8: Three Case Studies of Managing Remote Office and Industrial Ergonomics Processes
Room 102 A
Moderator: Jennifer Sinkwitts, VelocityEHS.
Presenters: Kent Hatcher, Blake McGowan, VelocityEHS.

M9: An AIHA Business Case for PtD Value Communication
Room 209 A
Moderator: Tsvetan Popov, University of Central Missouri.
Presenters: Georgi Popov, University of Central Missouri; Jonathan Bach, CDC/ NIOSH.

M10: Nanoparticle Emission From 3D Printing
Room 104 A
Moderator: John Suter, Assured Health and Safety Solutions, LLC.
Presenters: Andrey Korchevskiy, Daniel Hall, Chemistry & Industrial Hygiene, Inc; Cary Hill, Nanosafe, Inc.

Poster Session 3
Author Attend Time
2nd Floor Prefunction

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1:00 p.m.–2:00 p.m.
N1: Research Roundup: Big Data 2
Room 102 A
1:00 p.m.–1:30 p.m.
Mold Spores Counting and Identification by Means of Artificial Intelligence — A Case Study
Presenter: David Mendels, xRapid
Environment.
1:30 p.m.–2:00 p.m.
Using Cloud-Based Systems to Monitor Particles During a Health Care Construction Project
Presenter: Tom Hawkinson, Stantec Consulting Services Inc.

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**Wednesday, May 25 Sessions**

**N2: Research Roundup: Hazard Recognition and Exposure Assessment 5**
Room 103 A
**Moderator:** Daniel Autenrieth, Montana Tech.
1:00 p.m.–1:30 p.m.
**OSHA — Diving Hazards Related to Pressure Differential**
**Presenter:** Andre Taylor, US Dept of Labor – OSHA.
1:30 p.m.–2:00 p.m.
**Thyroid Bioassay and Dose Assessment System for I-125 at WHOI**
**Presenter:** Ron Reif, WHOI.

**N3: Research Roundup: Indoor Environmental Quality 3**
Room 207 A
**Moderator:** Janet Stout, Special Pathogens Laboratory, A Pace® Laboratory.
1:00 p.m.–1:30 p.m.
**Legionella Inhibition by Reducing Dissolved Oxygen in a Hot Water Test System — Avoiding the Risks and Adverse Effects of Available Control Methods**
**Presenter:** J. Krause, HC3.

**N4: Unique Hazards in the Agriculture and Maritime Industries’ Notable Confined Spaces**
Room 205 A
**Moderator:** Bonnie Lockhart, Ameren.
**Presenters:** Bayless Kilgore, EnSafe Inc.; Donald Raffo, Marine Chemist Association.

**N5: COVID-19 and the Future of Work**
Room 106 A
**Moderator/Presenter:** John Dony, National Safety Council.
**Presenters:** Caitlin Lang, National Safety Council; Stephanie Roberts, National Safety Council.

**N7: Measuring the Exposure Levels to Naturally Occurring Asbestos for Field Workers in Western U.S. in the Context of Global Climate Change**
Room 207 C
**Moderator:** Michael Henderson, HETI.
**Presenter:** Daniel Farcas, HETI.

**N8: Advancing Injury Prevention Through AI and Wearable Technology**
Room 104 A
**Moderator/Presenter:** Heather Chapman, Paradigm Safety.
**Presenter:** Matthew Hart, Soter Analytics.

**N9: AIHA’s and Your Role in Consensus Standards**
Room 209 A
**Moderator:** John Suter, Assured Health and Safety Solutions, LLC.
**Presenters:** Thomas Slavin, Slavin OSH Group; Ryan Graff, Merck & Co Inc.

**N10: A Multidisciplinary Approach to the Implementation of Respiratory Protection Programs in Healthcare Facilities During the COVID-19 Pandemic**
Room 105 A
**Moderator/Presenter:** George Gruetzmacher, UW-Madison, WI State Laboratory of Hygiene.
**Presenters:** Robert Vercellino, Wisconsin State Laboratory of Hygiene; Kelli Rush-Humber, Wisconsin State Laboratory of Hygiene.

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**Events take place at the Music City Center unless otherwise noted.**
Wednesday, May 25 Sessions

2:15 p.m.–3:15 p.m.

O1: Research Roundup: Risk Assessment 3
Room 207 A
Moderator: Xin Zhang, University of Michigan Dept Env Health Sci.
Feasibility of Using a Community Engaged Approach to Measure Volatile Organic Compounds in Nail Salons in New Jersey and New York
Presenter: Inkyu Han, Temple University College of Public Health.

O2: Research Roundup: Hazard Recognition and Exposure Assessment 6
Room 209 A
Moderator: Daniel Autenrieth, Montana Tech.
Transfer of Copper onto Skin Following Repeated Contacts
Presenter: Tyler Ferracini, Jennifer Sahmel, Insight Exposure and Risk Sciences.

O4: The Nature of Electrostatic Spark Hazards and Practical Measures for Control
Room 105 A
Moderator/Presenter: Vahid Ebadat, Stonehouse Process Safety.

O5: Canadian and U.S. Rollout of Breathe Freely Initiative to Prevent Occupational Lung Disease
Room 106 A
Moderator: Matthew Soltis, Tetra Tech.
Presenters: Eugene Satrun, Satrun OHS Consulting LLC; Jason McInnis, Boilermakers International.

O6: Qualitative Exposure Assessment Tool for Initial Screening
Room 102 A

O7: Chaos and Order in Air Contamination
Room 104 A
Moderator: Daniel Hall, Chemistry & Industrial Hygiene, Inc. Presenter: Andrey Korchevskiy, Chemistry & Industrial Hygiene, Inc.

O8: Hurricane Response During the COVID-19 Pandemic
Room 103 A

O10: Aerosol Dispersion of Submicrometer Particles in an Aircraft Cabin
Room 202 A
Moderator: Changjie Cal, University of Oklahoma Health Sciences Center. Presenters: Yu Feng, Arvind Santhanakrishnan, Mitchell Ford, Oklahoma State University, Stephanie Vannarath, Peter Kim, University of Oklahoma Health Sciences Center.

3:30 p.m.–4:45 p.m.
Closing General Session

The Future of Occupational Safety and Health
Karl F. Dean Ballroom ABC-S
Presenter: James Frederick
As the Occupational Safety and Health Administration (OSHA) continues its efforts to ensure workplace protections during the COVID-19 pandemic, Deputy Assistant Secretary Frederick will discuss the agency’s ongoing activities, rulemakings, and initiatives to keep workers healthy and safe. Mr. Frederick will also look ahead to the future of work and discuss how the occupational safety and health community can best prepare for the challenges and opportunities to come.
The new editions are here!

Updated and peer-reviewed to include:
- Assessment, Remediation, and Post-Remediation Verification of Mold in Buildings, 2nd edition
- Biological Monitoring: A Practical Field Manual, 2nd edition
- Burton Field Guide for Industrial Hygiene, 2nd edition
- Recognition, Evaluation, and Control of Legionella in Building Water Systems, 2nd edition

Tap into these leading resources to learn more!
Thursday, May 26 At A Glance

6:30 a.m.–10:00 a.m.
- Registration, Registration Lobby, 2nd Floor
- 7:00 a.m.–7:30 a.m.
  - PDC Monitor Meeting, Room 201 A
- 7:00 a.m.–5:00 p.m.
  - Speaker Ready Room, Room 201 A

8:00 a.m.–Noon
- PDC 901: How to Identify and Control Flash Fire and Explosion Hazards, Room 102 A
- PDC 903: Updates to Hazard Communication – OSHA Hazcom, WHMIS 2015, and the GHS – NEW!, Room 106 A
- PDC 904: Old Theories and New Concepts in Nanotechnology, Room 104 C
- PDC 905: What-If/Checklist Hazard Analysis Technique for the IH/OS Toolbox, Room 106 C

8:00 a.m.–5:00 p.m.
- PDC 801: Emotional Intelligence, Managing Conflict, and Communicating Effectively – NEW!, Room 202 A
- PDC 802: The Fundamentals of an Effective Respiratory Protection Program, Room 202 C
- PDC 803: The Submicrogram World — The OSHA Beryllium Standard, Room 103 A
- PDC 804: Industrial Hygiene Risk Assessment – NEW!, Room 104 A
- PDC 806: Improving IH Exposure Judgments Train-the-Trainer, Room 104 D
- PDC 807: We Can Fight the Bias – NEW!, Room 105 A

Noon–1:00 p.m.
- PDC Luncheon, Room 205

1:00 p.m.–5:00 p.m.
- PDC 1001: Using Microsoft Office Tools to Help Manage and Deliver Your Data to Upper Management – NEW!, Room 106 C
- PDC 1002: Electric Arc Protection Today and in the Future – NEW!, Room 102 A
- PDC 1003: A Comprehensive Look Into Laser Accidents, Room 106 A

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The Role of the Industrial Hygienist in a Pandemic, 2nd edition

Provides resources, information, and tools to advise and assist general workers, health care workers, and management to protect workers in the case of a pandemic.

This guide identifies hazards, risk groups and recommended controls; offers a communication plan; describes the impact of a pandemic on organizations; and lists key resources to contact for further information.

Thanks to a cooperative agreement with the Centers for Disease Control and Prevention (CDC), AIHA is able to offer this PDF book for FREE.

Get Your FREE Digital Download at bit.ly/IHpandemic
SMILE... and get ready for your close-up at the Head Shot Café!
Monday and Tuesday only; available on a first-come, first-serve basis

RECHARGE... your devices using our free phone charging tower

STOCK UP... on the latest releases from our bookstore, and take advantage of special conference pricing and free shipping

LEARN... more about the latest initiatives at the AIHA Main Stage
Poster Sessions

Poster Session I
Monday, May 23, 2022
Author Attend Time
11:15 a.m.–12:15 p.m.
2nd Floor Prefunction
Topics: Big Data, Epidemiology, Hazard Recognition/Exposure Assessment, Indoor Environmental Quality/Indoor Air Quality, Noise/Hearing Loss Prevention, Risk Assessment and Management, Sampling and Analysis

- 1032 - Noisy Dining: Measurements and a Comprehensive Review of Occupational Exposure in Restaurants, Coffee Shops, and Bars, and Implications for Total Worker Health
  Presenter: Neva Jacobs, Cardno.

- 1094 - Evaluation of exposure to terpenes, VOCs, and particles associated with airborne dispersion of tea tree essential oil utilizing two essential oil diffuser types in a household setting
  Presenter: Rachel Zisook, Cardno ChemRisk.

- 1143 - Noise exposure assessment of occupational health and safety (OHS) consultants: A preliminary study
  Presenter: Craig Fairclough, Workplace Safety & Prevention Services.

- 1179 - Noise exposure and mental workload: A cross-sectional study on the relationship between occupational noise and a modified-raw NASA-TLX tool among surface miners
  Presenter: Lauren Smith, University of Michigan School of Public Health.

Student Poster Session
Monday, May 23, 2022
Author Attend Time
3:15 p.m.–4:15 p.m.
2nd Floor Prefunction

- 1355 - Beware the Grizzlyman: A Comparison of Job and Industry-Based Noise Exposure Estimates Using Manual Coding and the NIOSH NIOLCCS System
  Presenter: Benjamin Roberts, Cardno ChemRisk.

- 1379 - Consulting and Industrial Hygiene Sampling and Pressure Level Monitoring for Re-Development of City Properties for Housing and Compliance with Specified HUD Noise Criteria and Inclusion of Controls based on Professional and Technical Site Evaluation for Identified Community Noise Parameters
  Presenter: Jan Koehn, JK, Inc.

- 1403 - Noise exposure and mental workload: A cross-sectional study on the relationship between occupational noise and a modified-raw NASA-TLX tool among surface miners
  Presenter: Lauren Smith, University of Michigan School of Public Health.

- 1068 - Controlling for Heavy Metals in Electroplating Wastewater to Promote Health
  Presenter: Lauren Franklin, Tennessee State University.

- 1299 - Identifying and prioritizing hazardous chemicals in reactive systems in construction metal structure coatings: Part 1. Systematic review of product composition, frequency of use and health effects
  Presenter: Paridhi Patel, University of Massachusetts Lowell.

- 1438 - Characterization of simulated cough with virus bioaerosol and evaluation of face shields for controlling inhalation exposure
  Presenter: Allesandra Pratt, University of Iowa.

- 1440 - Development of a Methodology for the Quantification of Reaerosolization of a Biological Contaminant Surrogate Particle from Military Uniform Fabric
  Presenter: Casey Cooper, Air Force Institute of Technology.

- 1443 - An Investigation into Occupational Related Stress of At-Risk Workers During COVID-19
  Presenter: Thomas Gerding, University of Cincinnati.

- 1448 - Estimating Emission Rates of Dilute Peroxyacetic Acid from Disinfectant in Well-Mixed Room (WMR)
  Presenter: Ryan Hines, Johns Hopkins University, Bloomberg School of Public Health.

- 1449 - Analytical sampling method for chemotherapeutic surface contamination in occupational settings
  Presenter: Andrew Floeder, University of Minnesota.

- 1454 - Face Mask Testing Methodology: Cough Simulator and SEM
  Presenter: Laura Garland, Sam Houston State University.

- 1457 - Analyte Mass Recovery and Sampling Rate Characterization of a Photothermal Desorption Compatible Diffusive Sampler
  Presenter: Jacob Shedd, University of Alabama at Birmingham.

For full details, check the AIHce EXP website or mobile app/virtual platform.
Poster Sessions

- 1458 - Dust, Mold, Heavy Metals: Health Hazards in Museums
  Presenter: Johnathan Klicker-Wiechmann, Purdue University.

- 1460 - Validity (Accuracy) & Reliability (Precision) in Students’ Use of Four Types of Sampling-Pump Calibrators
  Presenter: Benjamin Wellerstein, Indiana University of Pennsylvania.

- 1461 - Cytotoxicity and Characterization of Ultrafine Particles from Desktop Three-Dimensional Printers with Multiple Filaments
  Presenter: Runcheng Fang, University of Cincinnati.

  Presenter: Nathan Chen, University of Alabama at Birmingham.

- 1473 - A Mixed Methods Approach to Quantifying Occupational Heat Stress in the Agricultural Health Study
  Presenter: Emma Moynihan, Johns Hopkins University, Bloomberg School of Public Health.

- 1475 - Laboratory Evaluation of a Prototype Portable Gas Chromatography (GC) with a Flame Ionization Detector (FID) for Toluene, Ethylbenzene, and Xylenes Analysis
  Presenter: Seunghyeon Yang, University of Alabama at Birmingham.

- 1478 - Evaluation of a Modified REDON Fit Test Protocol for Half-mask Respirators
  Presenter: Riley Duncan, University of North Alabama.

- 1481 - Early Detection Wastewater-Based Epidemiology Surveillance For: Andrea Oleson, University of Minnesota.

- 1482 - Pesticide Use in the Agricultural Health Study & Risk of End-Stage Kidney Disease: An Updated Analysis
  Presenter: Emma Moynihan, Johns Hopkins University, Bloomberg School of Public Health.

- 1483 - Evaluation of ventilation performance and respirable particles in food trucks
  Presenter: Dong Lee Yang, The University of Alabama at Birmingham.

- 1487 - New Approach to Analyzing the Size Distribution of Metallic Aerosols in Welding Fumes
  Presenter: Johnathan Klicker-Wiechmann, Purdue University.

- 1488 - Exploring Wind Ramping as a Determinant of Pesticide Drift
  Presenter: Yoni Rodriguez, University of Washington.

- 1489 - Characterizing Pesticide Related Illness in Illinois Using Hospital and Emergency Data
  Presenter: Lupita Quintana, University of Illinois at Chicago.

- 1491 - Assessment of a Ventilated Infectious Respiratory Aerosol Containment Device
  Presenter: Niles Andrus, University of Utah.

- 1493 - Performance Degradation of Low-Cost Optical Particle Counters in Simulated Occupational Environments
  Presenter: Ashley Anderson, The University of Iowa.

- 1494 - Pandemic in the Workplace: A Review of Hazard Definitions, Exposure Assessments, and Controls in State COVID-19 Occupational Health Standards
  Presenter: Kate Gardner, University of Utah.

- 1495 - The implications of the aging workforce on injury claims from a glass container manufacturing company
  Presenter: Chadwick Burdick, The University of Toledo.

- 1496 - Smart working and personal exposure to air pollutants
  Presenter: Giacomo Fanti, University of Insubria, Italy.

- 1497 - Correlation between the direct-reading light-induced fluorescence-based WIBS-5/NEO and traditional off-line methods in quantifying bioaerosol
  Presenter: Yao Addor, University of Cincinnati.

- 1500 - Evaluation of a Shortened REDON Fit Test Protocol for Half-mask Respirators
  Presenter: Olivia Dawson, University of North Alabama.

- 1503 - Does participation in a union women’s committees improve the experiences of tradeswomen?
  Presenter: Pranav Srikanth, University of Washington.

- 1504 - Investigation of the Relationship between Method of Processing Recycled Manure Solids Bedding and Air Quality on Midwest Dairy Farms
  Presenter: Puleng Moshele, University of Minnesota.

- 1505 - Characterizing healthcare worker occupational exposure to nitrous oxide during administration via face masks to pediatric patients
  Presenter: Shanna Kuehn, Children’s Minnesota.

- 1506 - Backpack Blower and Grass Trimmer Noise Exposure Assessment: A Laboratory Simulation
  Presenter: David McMahan, University of Alabama at Birmingham.

- 1508 - Permeation of Inorganic Gunshot Residues Dissolved in Commercial Gun Cleaning Solvent Through Disposable Nitrile Gloves
  Presenter: Travis Cribbs, UCLA.

- 1510 - Comparison of size distributions of particles in steel and aluminum welding fumes
  Presenter: Chang Geun Lee, Purdue University.

- 1511 - Reduction of Clostridioides Difficile Spores using Titanium and Zinc Nanocomposite
  Presenter: Peter Kim, University of Oklahoma Health Science Center.

For full details, check the AIHce EXP website or mobile app/virtual platform.
Poster Sessions

• 1512 - Factors Affecting Aerosol Emissions While Playing Musical Instruments
  Presenter: Vinson Turner, University of Utah.

• 1513 - Development of a Fit-matching App: Identification of Better Fitting Safety Eyewear
  Presenter: Jasna Williams, UAB School of Public Health.

Poster Session 2
Tuesday, May 24, 2022
Author Attend Time
11:15 a.m.–12:15 p.m.
2nd Floor Prefunction
Topics: Aerosols & Airborne Particulates, Engineering Controls and Ventilation, Hazard Recognition/Exposure Assessment, Indoor Environmental Quality/Indoor Air Quality, Sampling and Analysis

• 1085 - Comparison of two tracer gases to estimate air exchange rate using the concentration decay method
  Presenter: A. Michael Ierardi, Cardno ChemRisk.

• 1126 - Ventilation and Risk of Viral Transmission within Outdoor Dining Enclosures
  Presenter: Allison Persing, Cardno ChemRisk.

• 1176 - Determinations of Organic Ultraviolet (UV) Filters and the Associated Disinfection By-Products in Swimming Pools
  Presenter: You Xuan Fang, National Taiwan University, Taiwan.

• 1229 - Decomposition of formaldehyde in a photochemical ductless fume hood system equipped with an excimer vacuum-UV light source for industrial hygiene applications
  Presenter: Keisuke Naito, Ushio Inc., Japan.

• 1244 - Evaluation of Metalworking Fluid Exposure Data and the Effectiveness of Controls
  Presenter: Torey McLaren, The Travelers Companies, Inc.

• 1287 - Resolving Interferences in the Analysis of Inorganic Arsenic by ICP-MS
  Presenter: Tyler Erickson, OSHA Salt Lake Technical Center.

• 1342 - Evaluation of Asbestos Exposure Resulting from Simulated Application of Spiked Talcum Powders
  Presenter: Eric Miller, Cardno ChemRisk.

• 1345 - Potential Airborne Asbestos Concentrations for Exposure Reconstruction Associated with Historical Use of Cosmetic Talc: Application of a Fiber Decay Model
  Presenter: Torey McLaren, The Travelers Companies, Inc.

• 1382 - Development of a sampler that easily catches acrolein in the air
  Presenter: Yoshihiro Suzuki, SIBATA scientific technology Ltd., Japan.

Poster Session 3
Wednesday, May 25, 2022
Author Attend Time
10:30 a.m.–11:30 a.m.
2nd Floor Prefunction

• 1041 - A Scoping Analysis of Prenatal Exposure to Synthesized Nanoparticles
  Presenter: Hannah Calcaterra Mazzotta, Insight Exposure & Risk Sciences.

• 1153 - Integration of Dual Oxygen Sensors to Minimize False Alarms and Increase Reliability
  Presenter: Nikolas J Smith, UT-Battelle.

• 1183 - Artificial Intelligence in Hazardous Materials Management
  Presenter: Allison Davis, Mayo Clinic.

• 1184 - WTC Retrospective - WTC Retrospective - Exposures to Particulate Matter, Including Crystalline Silica, During Rescue and Recovery Operations
  Presenter: Robert C Adams, Ramboll US Consulting, Inc.

• 1189 - WTC Retrospective: An Analysis of Metal Exposures During Rescue and Recovery Operations at the World Trade Center
  Presenter: Robert C Adams, Ramboll US Consulting, Inc.

• 1194 - Proposing a New Method to Determine Penetration of Virus Through Gloves in Stretched and Flexed Conditions: A Preliminary Study
  Presenter: Dr. Jhy-Charm Soo, NIOSH.

• 1316 - Evaluation of Exposure-based Sampling Methods for Lead in Drinking Water
  Presenter: Evan Anderson, Ramboll.

• 1323 - Rapid Screening of Benzene and Aromatic Hydrocarbons in Soil Samples Using Portable Gas Chromatography with Photoionization Detection
  Presenter: Dr. Tsvetan Popov, University of Central Missouri.

• 1409 - Artificial Fog and COVID-19 in the Film and TV Industry
  Presenter: Mona Shum, Aura Health and Safety Corporation.

For full details, check the AIHce EXP website or mobile app/virtual platform.
We are pleased to showcase these newly released products and services.

**Casella’s Vortex3 High Flow Pump**
**Booth 1111**
Perfect for asbestos and particulate monitoring, this innovative pump is right at home among the rest of our air sampling pump family. With 12L/min with a typical filter and unique interlocking design to enable easy transportation, the Vortex3 is built last and with its rugged IP65 design. See it at Booth 1111 or online at [https://www.casellasolutions.com/us/en/products/vortex3-pro.html](https://www.casellasolutions.com/us/en/products/vortex3-pro.html).

**The GCT External Pump**
**Booth 1012**
Gas Clip Technologies’ newest accessory—the GCT External Pump—gives any Gas Clip diffusion detector the ability to take remote samples from up to 75 feet away. Its minimum continuous run time is 40 hours, and it can recharge in 4-6 hours. Visit [www.gascliptech.com](http://www.gascliptech.com) for more information.

**NoiseCHEK Personal Noise Dosimeter**
**Booth 905**
It’s occupational noise monitoring made easy, even in hazardous environments. SKC invites you to explore the NoiseCHEK Personal Dosimeter designed specifically for OEHS professionals and with more versatility than any Class 2 dosimeter. With its convenient features, connectivity to mobile app or PC, and intrinsic safety, NoiseCHEK is your ideal choice. See NoiseCHEK at Booth 905 and Learning Pavilion. View NoiseCHEK in action at [https://bit.ly/3D4kQqh](https://bit.ly/3D4kQqh).
Discover what's new
and next in the industry at the premier expo for OEHS professionals!

With networking opportunities galore, the expo hall is where all the magic happens. 160+ exhibitors and sponsors are ready to share their expertise and their newest innovations.

Can’t Miss Activities
• Monday Night Networking Reception
• Innovation Station Sessions
• Confined Spaces Rescue Demonstrations
• PPE Fashion Show
• Putt-Putt Course
• AIHA Head Shot Café
• Pathway Passport Challenge

AIHceEXP.org
Expo Highlights – Exhibit Halls A and B

AIHA Booth 925 Happenings

**AIHA's Head Shot Cafe**
Need a new professional head shot — or want an updated one for social media? AIHA is proud to present the Head Shot Cafe 2022, complete with makeup artists and a professional photographer. Appointments first-come, first-served, and a minimum tax-deductible donation of $20 minimum to AIHF is required. Monday and Tuesday only from 11:00 a.m.–3:00 p.m.

**The Catalyst Community**
Stop by the booth for a demonstration or to sign up and begin posting!

**Main Stage Presentations**
Join your peers for information on programs and volunteer opportunities with AIHA. Check out the schedule on the mobile app and in the AIHA Booth. Presentation times noted on pages 24, 34, and 46.

**Learn more about The Hamilton Club**
Learn how your organization can benefit from a partner alliance designed to complement your own strategic plan and help you more effectively reach your target audience.

Refresh and Recharge Breaks

*Exhibit Halls A and B*

**Mix, mingle, network, and grab some snacks as you meet exhibitors, visit with colleagues, and learn about new products and services from AIHA. Your conference badge is required to attend these events.**

**Monday and 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. While supplies last.

9:00 a.m.–1:00 p.m.

Need an extra little something? Order a smoothie or a latte at the specialty carts.

**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).

**Wednesday, 9:00 a.m.–1:00 p.m.**

*Specialty Carts* — Need a pick-me-up? Purchase a smoothie or latte at one our two specialty carts.

**Wednesday, 11:00 a.m.–Noon**

*Snack Break* — Fuel your brain for a strong finish to AllHce EXP 2022. While supplies last.
**Expo Highlights**

**Food Carts – NEW!**
At the end of the 500 aisle and 1600 aisle
Make the most of your lunch break and purchase a meal at one of three food carts conveniently located in the Expo Hall. Choose from Smokehouse BBQ, Sandwiches, or Nashville Hot (or Not) Chicken.

**PPE Fashion Show – NEW!**
At the beginning of the 400 aisle
**NEW!**
**PPE Fashion Show – NEW!**
At the end of the 500 and 600 aisles **NEW!**
Tuesday, May 24 | 12:30 p.m.–1:00 p.m.
AIHce EXP will host a fashion show highlighting PPEC that is designed for a workforce of widely varying sizes and proportions yet is also appealing to a newer generation of workers who will be more inclined to adopt PPEC thoughtfully designed, comfortable, and fashionable.

**New Exhibitor Pavilion**
700, 800, and 900 aisles
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 blue to make them even easier to find.

**Innovation Stations**
At the beginning of the 400 aisle
Monday, May 23–Tuesday, May 24
Bring new innovations back to your team with these short, impactful 25-minute presentations from our exhibitor partners. You’ll learn about new equipment, instrumentation, technology, services, and more, including the latest and greatest innovations to assist you with solving your workplace problems. Times noted throughout program.

**Table Topics**
At the end of the 900, 1000, and 1100 aisles
Tuesday, May 24
12:30 p.m.–1:30 p.m.
Join NIOSH staff as they discuss topics of specific interest to OEHS professionals.

**Rescue Demonstrations**
At the end of the 1400 and 1500 aisles
ERS, Inc., a leader in the nation providing industrial safety training will be performing live, 20-minute confined space rescue demonstrations – from a vertical and horizontal perspective – multiple times daily. Scheduled demonstrations listed below but stop by anytime during Expo Hall hours to view what ERS, Inc. has to offer and learn more.

**Monday, May 23**
**Horizontal Rescue Demonstrations**
9:35 a.m.–9:55 a.m.
**Vertical Rescue Demonstrations**
1:00 p.m.–1:20 p.m.
**Tuesday, May 24**
**Horizontal Rescue Demonstrations**
9:15 a.m.–9:35 a.m.
**Vertical Rescue Demonstrations**
1:00 p.m.–1:20 p.m.
**Wednesday, May 22**
**Vertical Rescue Demonstrations**
11:40 a.m.–Noon

**LEGO® Speed Building Challenge**
Activity Area at the end of the 1600 aisle
Want to own an AIHA logo made from LEGO®? Join the speed building challenge in Aisle 1600 and beat the time to win your own logo kit.
A $20 donation to AIHF is requested to participate. Entry does not guarantee a logo kit. Challenge times are first-come, first-served, with a max of 8 people per session.

**Monday, May 23**
12:30 p.m., 1:30 p.m., and 5:00 p.m.
**Tuesday, May 24**
12:30 p.m. and 2:30 p.m.
**Wednesday, May 25**
10:00 a.m. and 11:00 a.m.*
*If kits are still available

**Putt-Putt Golf**
Why go out to play a round of mini golf when we brought it you? Try to master each challenging hole of the 9-hole putt-putt course while walking the expo floor. Don’t forget to visit our hole #9 sponsor, CaseLa.
AIHA thanks our 2022 Hamilton Club Partners for their support!

The Hamilton Club is an invitation-only group and is comprised of corporations actively involved with AIHA’s initiatives via sponsorship, advertising, Foundation support, and more.
READ THE COLLECTION ON

Process Safety
FROM BENCH TO PILOT TO PLANT
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<tr>
<th>Exhibitor Name</th>
<th>Category</th>
<th>Location</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M</td>
<td></td>
<td>Saint Paul, MN 55144</td>
<td><a href="http://www.3m.com/PPESafety">www.3m.com/PPESafety</a> 612-743-9715</td>
</tr>
<tr>
<td>Access Sensor Technologies</td>
<td></td>
<td>Fort Collins, CO 80524</td>
<td><a href="http://www.accsensors.com">www.accsensors.com</a> 970-818-7520 <a href="mailto:contact@accsensors.com">contact@accsensors.com</a></td>
</tr>
<tr>
<td>AccuTec-IHS</td>
<td></td>
<td>Tulsa, OK</td>
<td><a href="http://www.accutec.com">www.accutec.com</a> 800-896-6959 <a href="mailto:info@accutec.com">info@accutec.com</a></td>
</tr>
<tr>
<td>ACGIH®</td>
<td></td>
<td>Cincinnati, OH 45241</td>
<td><a href="http://www.acgih.org">www.acgih.org</a> 513-742-2020 <a href="mailto:customerservice@acgih.org">customerservice@acgih.org</a></td>
</tr>
<tr>
<td>Advanced Chemical Testing</td>
<td></td>
<td>Longwood, FL 32750</td>
<td><a href="http://www.acsbadge.com">www.acsbadge.com</a> 561-338-3116 <a href="mailto:spetrunick@acsbadge.com">spetrunick@acsbadge.com</a></td>
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<td>ACGIH®</td>
<td></td>
<td>Indianapolis, IN 46202</td>
<td><a href="http://www.acgih.org">www.acgih.org</a> 513-742-2020 <a href="mailto:customerservice@acgih.org">customerservice@acgih.org</a></td>
</tr>
<tr>
<td>Affygility Solutions</td>
<td></td>
<td>Falls Church, VA 22042</td>
<td><a href="http://www.affygility.com">www.affygility.com</a> 703-884-3028 <a href="mailto:dciahoun@affygility.com">dciahoun@affygility.com</a></td>
</tr>
<tr>
<td>AIHA</td>
<td></td>
<td>Falls Church, VA 22042</td>
<td><a href="http://www.aiha.org">www.aiha.org</a> 703-846-0795 <a href="mailto:infonet@aiha.org">infonet@aiha.org</a></td>
</tr>
<tr>
<td>AIHA Laboratory Accreditation Programs, LLC</td>
<td></td>
<td>Falls Church, VA 22042</td>
<td><a href="http://www.aihaccreditedlabs.org">www.aihaccreditedlabs.org</a> <a href="mailto:cmorton@aiha.org">cmorton@aiha.org</a></td>
</tr>
<tr>
<td>ALS Environmental</td>
<td></td>
<td>Salt Lake City, UT 84123</td>
<td><a href="http://www.alsglobal.com">www.alsglobal.com</a> 801-266-7700 800-356-9135 <a href="mailto:roxanne.olson@alsglobal.com">roxanne.olson@alsglobal.com</a></td>
</tr>
<tr>
<td>AMETEK MOCON</td>
<td></td>
<td>Brooklyn Park, MN 55428</td>
<td><a href="http://www.ametekmocon.com">www.ametekmocon.com</a> 763-493-7231 <a href="mailto:todd.hardwick@ametek.com">todd.hardwick@ametek.com</a></td>
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<tr>
<td>AirClean Systems</td>
<td></td>
<td>Broomfield, CO 80021</td>
<td><a href="http://www.aircleansystems.com">www.aircleansystems.com</a> 303-884-3028 <a href="mailto:sales@aircleansystems.com">sales@aircleansystems.com</a></td>
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<tr>
<td>A-SAFE</td>
<td></td>
<td>York, PA 17404</td>
<td><a href="http://www.asafe.com">www.asafe.com</a> 717-650-4672 <a href="mailto:john.simcoe@asafe.us">john.simcoe@asafe.us</a></td>
</tr>
<tr>
<td>AirSystems International</td>
<td></td>
<td>Chesapeake, VA 23320</td>
<td><a href="http://www.airsystems.com">www.airsystems.com</a> 757-424-3967 <a href="mailto:sales@airsystems.com">sales@airsystems.com</a></td>
</tr>
<tr>
<td>Assay Technology, Inc./AT Labs/MNR Services</td>
<td></td>
<td>Livermore, CA 94551</td>
<td><a href="http://www.assaytech.com">www.assaytech.com</a> 800-833-1258 <a href="mailto:custservice@assaytech.com">custservice@assaytech.com</a></td>
</tr>
<tr>
<td>Board for Global EHS Credentialing</td>
<td></td>
<td>New York, NY</td>
<td><a href="http://www.GoBGC.org">www.GoBGC.org</a> 517-321-2638 <a href="mailto:administration@GoBGC.org">administration@GoBGC.org</a></td>
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<tr>
<td>Blackline Safety</td>
<td></td>
<td>York, PA 17404</td>
<td><a href="http://www.blacklinesafety.com">www.blacklinesafety.com</a> 403-606-5196 <a href="mailto:mirvine@blacklinesafety.com">mirvine@blacklinesafety.com</a></td>
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<tr>
<td>Blackline Safety</td>
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<td>York, PA 17404</td>
<td><a href="http://www.blacklinesafety.com">www.blacklinesafety.com</a> 403-606-5196 <a href="mailto:mirvine@blacklinesafety.com">mirvine@blacklinesafety.com</a></td>
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</tbody>
</table>

For the most up-to-date list and company descriptions, visit the AIHce EXP 2022 exhibitor directory.
Larson Davis ........................... 1202
3425 Walden Avenue
Depew, NY 14043
www.larsondavis.com
716-664-0001
sales@larsondavis.com

NEW! Lev-co .......................... 816
182 North Port Road
Unit #3
Port Perry, ON L9L 0B7
Canada
www.lev-co.com
905-831-7001
rob@lev-co.com

Liberty Mutual Insurance .......................... 836
94 South Street
Hopkinton, MA 01748
business.libertymutualgroup.com/business-insurance/risk-control/industrial-hygiene
508-544-5348
800-230-6263
laura.melton@libertymutual.com

NEW! LifeBooster Inc. .......................... 1325
304-1140 Homer Street
Vancouver, BC V6B 2X6
Canada
www.lifebooster.ca
604-200-2454
michael.siniak@lifebooster.ca

NEW! Lighthouse Worldwide Solutions .......................... 717
1221 Disk Drive
Medford, OR 97504
www.lighthouse.com/en
541-841-2218
devins@golighthouse.com

Magid ........................................ 625
1300 Naperville Drive
Romeoville, IL 60446
www.magidglove.com
800-444-8030
mktg@magidglove.com

MAXAIR Systems ................................ 419
17171 Daimler Street
Irvine, CA 92614
www.maxair-systems.com
800-443-3842
kathi@biomaxair.com

Met One Instruments, Inc., ........................ 737
1600 NW Washington Blvd
Grants Pass, OR 97526
www.metone.com
541-471-7111
sales@metone.com

MilliporeSigma .................................. 1533
595 North Harrison Road
Bellevonte, MA 16823
www.sigma-aldrich.com/air-monitoring
800-645-5476

mPower Electronics Inc., ................................... 1328
3046 Scott Boulevard
Santa Clara, CA 95054
www.mpowerinc.com
408-320-1266
866-676-9377
info@mpowerinc.com

MPSA, a division of Airline .................................. 1512
3557 Progress Drive
Bensalem, PA 19020
www.mpsasafety.com
844-267-7272
sales@mpsasafety.com

MSA Safety Sales LLC .................................. 710
1000 Cranberry Woods Drive
Cranberry Twp., PA 16066
www.msa.com
603-496-8050
brandi.smith@msasafety.com

Mycometer, Inc. .................................. 524
4004 S. MacDill Avenue
Suite 7
Tampa, FL 33611
sales@mycometer.com

Nanozen ........................................ 602
25 East 6th Avenue
Unit 202
Vancouver, BC V5T 1J3
Canada
www.nanozen.com
peterb@nanozen.com

Nexteq, LLC .................................. 934
8408 Benjamin Road
Suite J
Tampa, FL 33634
www.nexteq.com
813-249-5888
jeff_d1@nexteq.com

Noise Control Engineering, LLC .......................... 1207
85 Rangeway Road
Building 2 - 2nd Floor
North Billerica, MA 01862
978-670-5339
jeff.komrower@noise-control.com

NRCC ........................................ 1237
125 Rose Ann Lane
West Grove, PA 19390
www.nrcc6.org
610-322-0657
rphifer@nrcc6.org

Occupational Health & Safety .......................... 1513
14901 Quorum Drive
Suite 42
Dallas, TX 75254
www.ohsonline.com
972-687-6700
smay@1105media.com

OHD, LLP .................................. 425
2878 John Hawkins Pkwy
Hoover, AL 35244
www.ohdglobal.com
205-980-0180
sales@ohdglobal.com

OHTA ....................................... 1507
c/o MCI
Building 1000, Lakeside, Western Road
Portsmouth, Hampshire PO6 3EZ
United Kingdom
www.ohtatraining.org
44(0) 1730 715215
team@ohtatraining.org

Open Range Software, LLC .................................. 1229
P.O. Box 80
9706 Highway 70 E
Coral Orchard, TN 37223
www.openrangesoftware.com
800-669-6742
joe.sherrill@openrangesoftware.com

Particles Plus .................................. 611
31 Tosca Drive
Stoughton, MA 02072
781-341-6898
adam@particlesplus.com

PathCon Laboratories .................................. 740
270 Scientific Drive
Suite 3
Peachtree Corners, GA 30092
www.pathcon.com
770-446-0540
info_na@pathcon.com

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Exhibitors by Alpha
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5540 Cerritos Avenue
Cypress, CA 90630
www.ushio.com
800-838-7446

VelocityEHS ........................ 1502
222 W Merchandise Mart Plaza
Suite 1750
Chicago, IL 60654
www.ehs.com
866-919-7922
velocity@ehs.com

Verisk 3E .............................. 1305
3207 Grey Hawk Ct. #200
Carlsbad, CA 92010
www.verisk3e.com
760-602-8700
800-360-3220
info@verisk3e.com

Vertere ............................... 637
P.O. Box 152
Portsmouth, RI 02871
www.vertere.com
800-628-9917
sherritoner@vertere.com

NEW! Vest Safety Medical Services, LLC .................. 810
2306 Blodgett Street
Houston, TX 77004
www.respiratorclearance.com
844-837-8767
mark.pelc@vestmed.com

VICI Metronics, Inc. ................. 1302
26295 Twelve Trees Lane
Poulsbo, WA 98370
www.vici.com
360-697-9199
sarah.orwick@vici.com

Washington State Dept. of Labor & Industries .......... 517
P.O. Box 44000
P.O. Box 44649
Tumwater, WA 98504
www.lni.wa.gov
562-606-5261
lori.hensin@lni.wa.gov

WAVECONTROL INC ............... 1410
101 Eisenhower Pkwy
Suite 300
Roseland, NJ 07068
www.wavecontrol.com
201-479-9022
marketing@wavecontrol.com

Westex by Milliken ................. 840
920 Milliken Road
Spartanburg, SC 29303
www.westex.com
864-523-0919
frinfo@milliken.com

Wood .................................. 1107
4020 Lake Washington Blvd NE
Suite 200
Kirkland, WA 98033
www.woodplc.com
425-368-1000
mike.s.smith@woodplc.com

WorkCare, Inc ........................ 1432
300 S Harbor Blvd
Suite 410
Anaheim, CA 92805
www.workcare.com
714-987-7488
800-455-6155
info@workcare.com

Working Concepts, Inc ........... 634
P.O. Box 1345
Gresham, OR 97030
www.softknees.com
503-663-3374
alex@softknees.com

WSP Golder .......................... 841
9428 Baymeadows Road
Suite 400
Jacksonville, FL 32256
www.wsp.com
904-305-7830
andreas.wagner@wsp.com

xRapid ................................ 510
1000 N Green Valley Pkwy
Henderson, NV 89074
www.xrapid-group.com
512-748-8606
Jean@xrapid-group.com

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- Speaker Ready Room
- Posters
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Registration
Music City Center

Level 3

- Entrance to/from Westin (COVID clearance)
- Learning Pavilions
- Exhibit Hall (A and B)

Level 4

- General Session
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- Entrance

Exhibit Hall (A and B)
Learning Pavilions
Entrance to/from Westin (COVID clearance)
Omni Floor Plans

Level 2

Accessible via elevator only.

Level 3

Level 4

To Level One
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