AIHCEEXP2022

Advancing Worker Health & Safety

MAY 23-25 | Nashville, TN

Professional Development Courses May 21, 22, and 26

FINAL PROGRAM

The premier conference and exposition for occupational and environmental health and safety professionals



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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 AlHce 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 AlHce EXP sessions and events, including social activities. AlHF 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.

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.

CASELLA

Lanyards sponsored by Casella

Dräger

N95 masks provided by Draeger – Limit 3 per person

Behavior Standards

AlHce EXP is a professional conference. AlHA 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 AlHA 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

 Disruption of presentations at sessions, in the exhibit hall, or at other events organized by AIHA

AlHA 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, AlHA 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 AlHA's Member Code of Conduct and Reporting Form, visit www.aiha.org/membership and search AlHA Code of Conduct Acknowledgement.

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 AlHce EXP environment.

CIH Requirements

For detailed information about CIH 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 AlHce EXP 2022 events (including courses, sessions, socials, or in the Expo).

General Information

Education Credits

AlHce 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.

AlHce 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 products through their Pick

regionally and locally farmed 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 AlHce 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 AlHce EXP have not necessarily been approved or endorsed by AlHA.

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.m5:30 p.m.
	9:00 a.m.–3:30 p.m.
	9:00 a.m.–1:00 p.m.

Final Program

Descriptions of individual sessions may be found in the AlHce 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. AlHce 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

AlHce 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

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5:15 p.m.–7:00 p.m.
7:00 a.m5:30 p.m.
8:00 a.m4:00 p.m.
7:00 a.m.–5:15 p.m.
8:00 a.m3:00 p.m.
7:00 a.m5:00 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: AlHce2022

Passcode: iamlH2022

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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Special Events

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!



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, AlHA award winners, and other OEHS leaders.

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.

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 checkin 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





Bronze



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.



This year's Pathway Passport game is built right into the AlHce 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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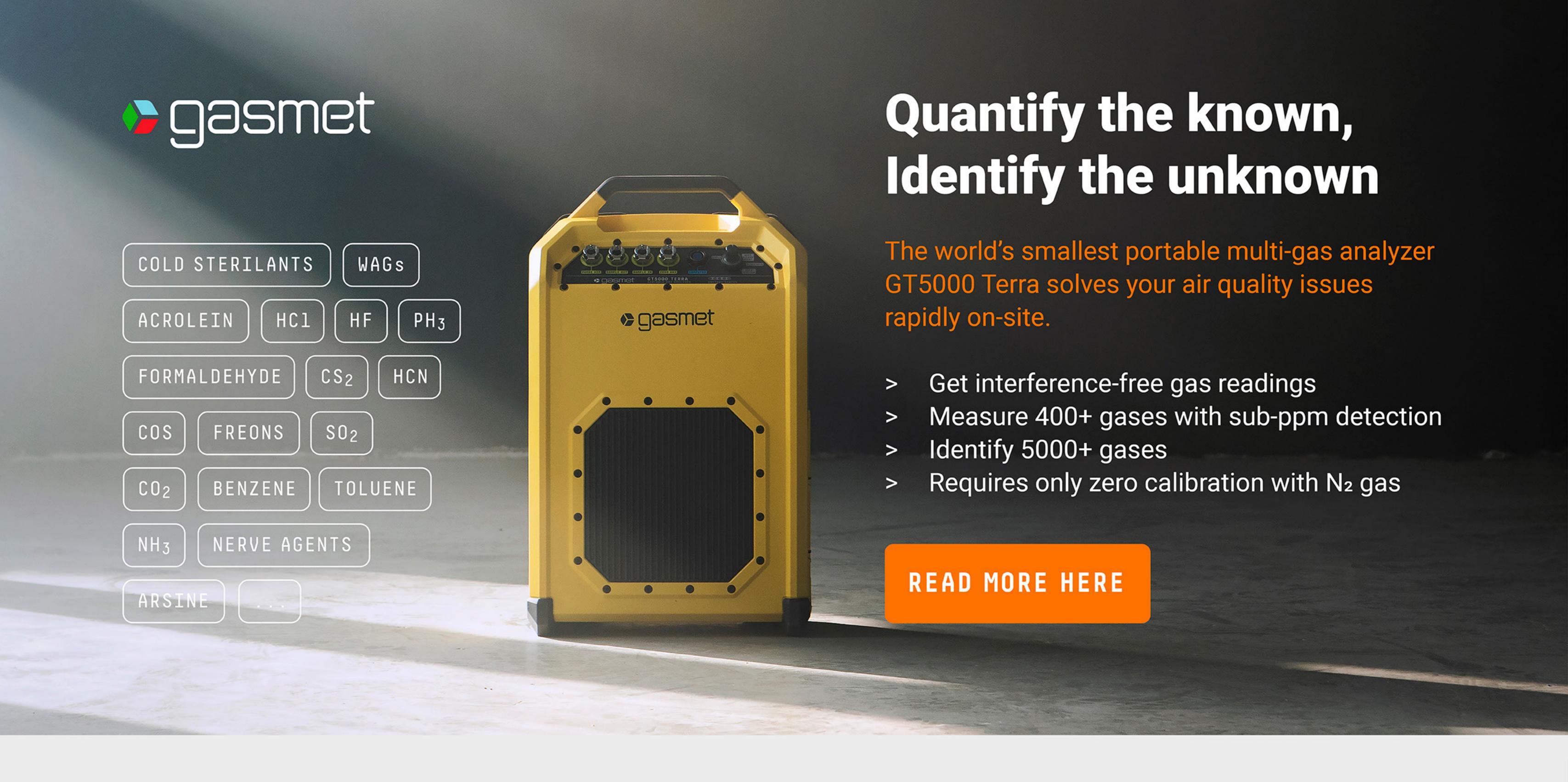
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AIHA® Fellows and AIHA Named Awards

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 Hollins, 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.



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 AlHA 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 AlHA'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 lowa/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.

AIHA® Fellows and AIHA Named Awards



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. Additionally, Platcow led the development of Vertex's mentoring program and currently serves on the company's Mentoring Leadership Committee and Diversity, Equity, and Inclusion Council.

2022 AIHA Named Award Recipients

AIHA values the profession and our members by providing opportunities and resources to share their work and recognize those who exemplify excellence and leadership. AIHA Named Awards are given to industrial hygienists and other occupational and environmental health and safety professionals whose efforts significantly strengthen IH/OEHS professionals' capabilities and improve the health and safety of workers around the world.



President's Distinguished Service to AIHA Award Paul Hewett, PhD, CIH, FAIHA

Selected by John Mulhausen, PhD, CIH, CSP, FAIHA

Hewett has made extensive contributions to AIHA, the profession, and the protection of workers through important scientific advancements in our techniques and tools to improve the effectiveness and efficiency of exposure assessment strategies. These include research, publications, and presentations on the analysis of censored datasets, exposure modeling, and the statistical analysis of exposure data—including seminal work on Bayesian Decision Analysis. Tool contributions include freeware versions of IHDataAnalyst for Bayesian statistical analysis of exposure data and programs for demonstrating the performance of various exposure assessment strategies.

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

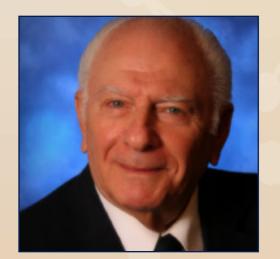
Nominated by Alan Rossner, PhD, CIH, FAIHA

Williams' efforts with the Society for Risk Analysis and AlHA's Risk Committee have brought a cross disciplinary element (along with others) to AlHA 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.

AlHce EXP 2022 ←

AIHA® Fellows and AIHA Named Awards



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,

CIAQM; 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.



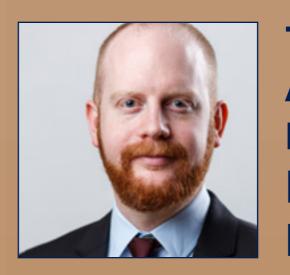
The Edward J. Baier Technical
Achievement Award
Charles "Gus" Manning, PhD, CIH,
FAIHA

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.

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.

Birkner Leadership Award



The AlHA 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.

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 AlHA Ergonomics

Committee presents the Chaffin Award to the best ergonomic-related technical session at AlHce EXP. Established in

2008, the award honors Dr. Donald B. Chaffin's many contributions to the field of ergonomics and to AlHA. This year's recipient is **Ryan Butler**, **CIH**, **CSP** for Whole-Body Vibration Exposure Onboard Coast Guard Small Boats.

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 AlHA

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 AlHce. This year's recipient is **Anthony Oliveri, CIH** for Lessons Learned From Fatality Assessment and Control Evaluations (FACE) Investigations in Michigan.

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.

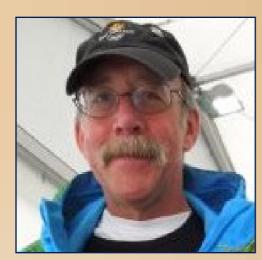
Cannabis Industry Health and Safety Best Student Poster

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 AlHA 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 continues 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, and/or providing guidance and mentorship to students or 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 <u>AIHA Non-lonizing Radiation</u> <u>Committee</u> 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 AlHA 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 AlHA Communication and Training Methods Committee. The award will be given to the best student poster at AlHce 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

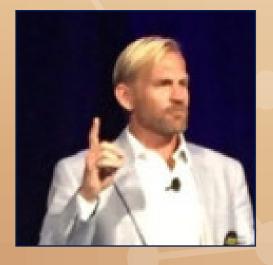
The John M. White Award was established by the AIHA Respiratory Protection Committee to encourage scientific and application-oriented research in respiratory protection. This year's award is presented to William G. Lindsley, Donald H. Beezhold, Jayme Coyle, Raymond C. Derk, Francoise M. Blachere, Theresa 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**.

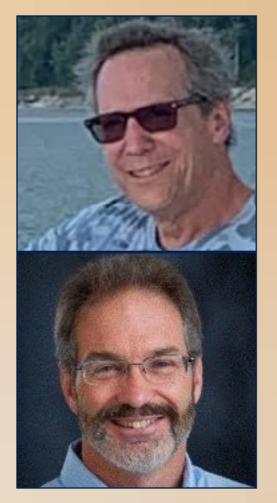


2021 AIHA Bestseller

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 Char 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. Springston, 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.

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., ClH, CHMM; Past Chair Melanie D. Nembhard, ClH. Alha Violet Color Council Committee.

Museum and Cultural Heritage Working Group—Chair Kathryn A. Makos, MPH, ClH; Vice Chair Jeffrey R. Sotek, ClH, CSP, PE; Secretary Ralph A. Froehlich, MS, ClH, CSP, QEP, FAIHA; Secretary-Elect Carlis Brown, MSPH, ClH. 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. Maclachlan. *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 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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2022

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Friday, May 20 and Saturday, May 21 At A Glance

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

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with are included in OnDemand.

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



Full session descriptions may be found in the mobile app.

Events take place at the Music City Center unless otherwise noted.



All times listed are Central.

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

- PDC 109: A Qualitative Risk Analysis Tool for the IH/OS Toolbox – NEW!, Room 104 C
- PDC 110: Evolving OEHS Risk Management Systems and Skills to Meet Post-2020 Challenges – NEW!, Room 209 A
- PDC 702: Evaluation, Operation, and Maintenance of Industrial Ventilation Systems – Day 1 – NEW!, Room 207 A
- PDC 703: Improving Inhalation Exposure Assessments –
 Day 1, Room 209 C
- PDC 704: Communicating Risk Pathways From EHS
 Hazards Identification to Enterprise Risk Management –
 Day 1, Room 105 A
- PDC 705: Electrical Safe Work Practices With Application of NFPA 70E (2021 Edition) – Day 1, Room 103 C

Noon- 1:00 p.m.

PDC Luncheon, Room 101 A

1:00 p.m.-5:00 p.m.

- PDC 301: Safety R.O.C.K.S. NEW!, Room 103 A
- PDC 302: "Fun"damentals of Industrial Toxicology NEW!,
 Room 202 A
- PDC 303: The Bigger Picture of Sustainable Development
 Goals NEW!, Room 205 A
- PDC 304: Real-World Challenges and Solutions for Respirator Cartridge Changeout Schedules – NEW!, Room 104 A

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



Sunday, May 22 At A Glance

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with are included in OnDemand.

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

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

- PDC 410: Understanding Exposure Statistics and Variability in IH, Room 202 C
- PDC 411: Workplace Solutions for Total Worker Health® 101 and Beyond, Room 202 A
- PDC 702: Evaluation, Operation, and Maintenance of Industrial Ventilation Systems – Day 2 – NEW!, Room 207 A
- PDC 703: Improving Inhalation Exposure Assessments –
 Day 2, Room 209 C
- PDC 704: Communicating Risk Pathways From EHS
 Hazards Identification to Enterprise Risk Management –
 Day 2, Room 105 A
- PDC 705: Electrical Safe Work Practices With Application of NFPA 70E (2021 Edition) – Day 2, Room 103 C
- AIHA Board of Directors Meeting, Omni, Legends Ballroom F

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.

Alha 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.

- AlHA Museum and Cultural Heritage Committee, Omni, Broadway Ballroom G
- AlHA Oil and Gas Working Group Meeting, Omni, Broadway Ballroom H

6:00 p.m.-7:30 p.m.

- AlHA International Affairs Committee Meeting, Omni, Legends
 Ballroom A
- AlHA Mining Working Group Meeting, Omni, Broadway
 Ballroom D

6:00 p.m.-8:00 p.m.

AlHA Women in IH (WIH) Committee Meeting, Omni, Broadway Ballroom K

6:30 p.m.-7:30 p.m.

- AlHA Environmental Issues Committee Meeting, Omni, Broadway Ballroom C
- AlHA 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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Monday, May 23 At A Glance



6:00 a.m.-7:30 a.m.

 AlHA Mentoring and Professional Development Committee Meeting, Omni, Legends Ballroom E

6:30 a.m.-7:15 a.m.

Namaste With AlHA (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.—9:30 a.m.

Opening General

Session and

Coffee

Keys to Assessing
Risk — Knowing
When to Push
or Pivot

Capt. Chris Cassidy

Karl F. Dean Ballroom ABC-S

Sponsored by

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8:00 a.m.-4:00 p.m.

Speaker Ready Room, Room 201 A

8:00 a.m.-5:00 p.m.

AlHF'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
- Part 1, Room 103 A

Sessions marked with will be broadcast for Virtual AlHce 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

	Pop-up Education	Health and Wellness
	Under the grand staircase on Level 1	Behind the main escalator
Time	across from Room 102	at the 5th Avenue entrance
10:00 a.m.–10:25 a.m.	Evaluating Respirable Titanium Dioxide Using X-Ray	Relaxation Techniques in the
	Diffraction	Workplace
	Presenter: Steven Verpaele, Nickel Institute, Belgium	Presenter: Small World Yoga
10:30 a.m.–10:55 a.m.	Noise Dosimetry Data Collection With a Smartphone	Chair Yoga (Yoga at Your Desk)
	Presenter: Mark Rollins, A-EHS	Presenter: Small World Yoga
11:00 a.m.–11:25 a.m.	Industrial Hygiene and Safety in Construction	Intro to Meditation
	Presenter: Philip Pederson, Consultant	Presenter: Small World Yoga
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	It All Begins With the Breath
	Presenter: Carl Sall, WSP	Presenter: Bruce Kelly
2:30 p.m.–2:55 p.m.	Managing Fatigue Risk in a 24/7 Workplace	Tapping
	Presenter: Brad Jones, LyondellBasell	Presenter: Bruce Kelly
3:00 p.m.–3:25 p.m.	Highlighting Priority Technologies for Worker Safety	Four-Minute Fitness
	Presenter: Sarah Ischer, National Safety Council	Presenter: Bruce Kelly
3:30 p.m.–3:55 p.m.	Rolling Out the "Smart Fit Test" Program	Anti-Anxiety Toolbox
	Presenter: Siu Keung Li,	Presenter: Bruce Kelly
	Hong Kong Hospital Authority, Hong Kong	
4:00 p.m.–4:25 p.m.	Using Computer Modeling to Predict Exposure	
	Presenter: Jason Lott, Afton Chemical	



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

AIHce EXP 2022 •

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Monday, May 23 At A Glance

Sessions marked with Will be broadcast for Virtual AlHce EXP. Sessions marked with $^{\circ}$ are included in OnDemand. Sessions, schedule, and inclusion in OnDemand are subject to change.

Innovation Station Schedule

Time	Sponsor	Exhibit Hall Aisle 400
9:35 a.m.–10:00 a.m.	INDUSTRIAL SCIENTIFIC	How to Build a Chemical Emergency Toolkit
10:10 a.m.–10:35 a.m.	SGS GALSON	Analysis of Settled Dust for Infiltration of Wildfire-Related Particulate Combustion Products
11:20 a.m.–11:45 a.m.	h-nu [*]	Advances in Real-Time Detection Systems
12:15 p.m.–12:40 p.m.	PURE	How to Comprehensively Eliminate Toxic Airborne Mold in 4 Hours
12:50 p.m.–1:15 p.m.	equivital	Manage, Monitor, and Help Protect Your Teams From the Heat
1:25 p.m.–1:50 p.m.		Quieter Is Better!
2:00 p.m.–2:25 p.m.	Words Con Tiest, Evaluate Essive	Real-Time Solutions for Real-Time Challenges: Silica & Respiratory Protection

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 AlHce 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

11:00 a.m.-12:15 p.m.

Student Local Sections Council Business Meeting, Omni, Cumberland 1

11:15 a.m.–12:15 p.m.

- B1: Research Roundup: Epidemiology, Room 209 A
- B2: Research Roundup: Aerosols 2, Room 207 A
- B3: Evaluating Noise-Induced Hearing Loss Workers' Compensation Claims, Room 104 A
- B5: EH&S Professionals' Journeys From Safety to Wellness, Room 106 A

- 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

2:00 p.m.-3:00 p.m.

- C1: Research Roundup: Hazard Recognition and Exposure Assessment 1, Room 102 A
- C2: Research Roundup: Risk Assessment 2, Room 202 A
- C3: Occupational Health and Safety Priorities in Gold Mining, Room 207 C



Hazard Recognition/ Exposure Assessment Track

Sponsored by SGS

Sessions in this year's Hazard Recognition/ Exposure Assessment track will feature SGS Galson's SmartSense™ real-time, remote, air monitoring technology that continuously measures indoor air quality and environmental parameters with professional grade accuracy. SmartSense[™] monitors will be placed in the five meetings rooms of sessions in the track to monitor air quality Monday through Wednesday. Real-time data reports will appear on a screen in SGS's exhibit booth 1005 and will be provided to AIHA and the Music City Center.

- 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

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
- Part 3, Room 103 A
- BGC Forum, Omni, Music Row 5

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
- 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

4:00 p.m.-5:00 p.m.

AlHA Technology Initiatives Strategic
Advisory Group, Omni, Legends Ballroom E

4:00 p.m.-5:30 p.m.

Continuing Education Committee (CEC)
 Meeting (by invitation only), Omni, Old Hickory

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.

- AlHA Aerosol Technology Committee, Omni, Broadway Ballroom C
- AlHA Ergonomics Committee, Omni, Broadway Ballroom H
- AlHA Fellows Special Interest Group, Omni,
 Music Row 5
- AlHA Occupational and Environmental Epidemiology Committee, Omni, Broadway Ballroom K

6:00 p.m.-7:30 p.m.

- Academic Accreditation Panel, Omni, Old Hickory
- AlHA Confined Spaces Committee, Omni, Legends Ballroom G

6:00 p.m.-8:30 p.m.

- AlHA Government Relations Committee,
 Omni, Broadway Ballroom J
- Department of Energy (DOE) and DOE
 Contractor Industrial Hygiene Annual
 Meeting, Omni, Legends Ballroom A



All times listed are Central.

6:30 p.m.-7:30 p.m.

AlHA International Reception, Omni, Legends Ballroom D

6:30 p.m.-8:00 p.m.

AlHA Cannabis Health and Safety Committee
 Meeting, Omni, Broadway Ballroom G

7:00 p.m.-8:30 p.m.

AlHA Exposure Assessment Strategies
 Committee Meeting, Omni, Legends Ballroom F

Alha Main Stage Schedule

All held in the Exhibit Hall, AIHA Booth 925

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

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

AlHce EXP 2022 ←



CAREER

ADVANTAGE FOIR 2022

Meeting Room 206 B

The #I 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 | 3:00 p.m.-4:00 p.m.

Connect with other professionals during this speed networking session. This is an opportunity to gain experience with AIHA's Career and Employment Services Committee while interacting with those looking for employees and/or new opportunities. There will be prizes for the top networkers!

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

and more.

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,

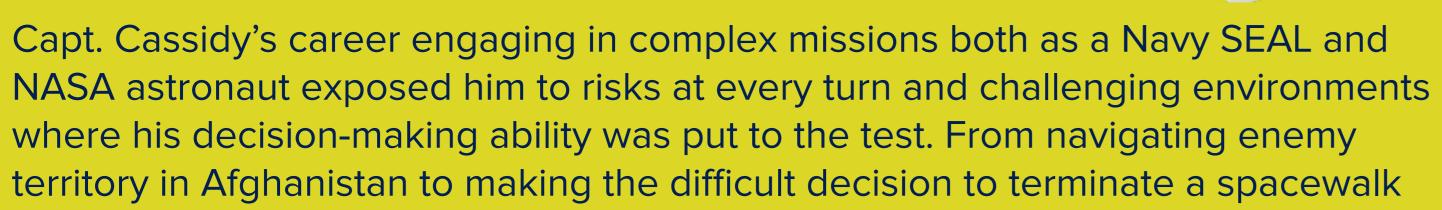
LEARN MORE

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



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.

Session and coffee sponsored by





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

Al: 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.

AErosols I

Room 207 C

Moderator: Maura Sheehan, West Chester University

10:00 a.m.-10:30 a.m.

Design and Performance of Size-Selective Aerosol Sampling Inlets, Part 1 Presenter: Christian L'Orange, Colorado State University. Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

10:30 a.m.-11:00 a.m

Design and Performance of Size-Selective Aerosol Sampling Inlets, Part 2 Presenter: Patrick O'Shaughnessy, The University of Iowa.

□ 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.

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.

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



A8: Ask the Expert with the Opening Keynote Speaker, Capt. Chris Cassidy

Room 205 A

Moderator: Laura Weems, US Army Corps of Engineers. Presenter: Capt. Chris Cassidy, NASA Astronaut, U.S. Navy SEAL, CEO and President of the National Medal of Honor Museum.

A9: Preparing OEHS for Tectonic Shifts in Organizational Decision Making

Room 209 A

Moderator/Presenter: Charles Redinger, Institute for Advanced Risk Management.

AIO: The Role of the IH in a Pandemic, Part I

Room 103 A

Moderator: Robert Strode, Chemistry & Industrial Hygiene, Inc. Presenters: Kae Aithinne, Johns Hopkins Applied Physics Lab; Lisa Brosseau, University of Minnesota, Center for Infectious Disease Research and Policy; Stephen Derman, Palo Alto Research Center, Medishare Environmental Health and Safety Services.

Learning Pavilion

velocityEHS°

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.

BI: 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.

Birth Defects and Maternal Work as a Nail Technician or Hairdresser During Pregnancy — National Birth Defects Prevention Study, 1997–2011

Presenter: Kendra Broadwater, NIOSH.

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

B2: Research Roundup: Aerosols 2

Room 207 A 11:15 a.m.-11:45 a.m.

Respirable Dust Generated from
Cutting Concrete in Laboratory FullScale 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.

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: Eltaneice 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.

1 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

SKC

Poster Session I 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 AlHce 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.

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

2:00 p.m.-3:00 p.m.

CI: 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.

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.

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



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.

Sessions marked with will be broadcast for Virtual AIHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

☐ CIO: The Role of the IH in a Pandemic, Part 3

Room 103 A

Moderator: Lisa Brosseau, University of Minnesota, Center for Infectious Disease Research and Policy. Presenters: Jonathan Rosen, National Clearinghouse for Worker Safety & Health Training; Laurence Svirchev, Svirchev OHS Management Systems.

3:15 p.m.-4:15 p.m.

☐ DI: Research Roundup: Hazard Recognition and Exposure Assessment 2

Room 102 A

Moderator: Derek Newcomer, USPHS. 3:15 p.m.–3:45 p.m.

Exposures and Biomarkers of
Organophosphorus Flame Retardants
Among Spray Foam Applicators —
Intervention Opportunities
Presenter: Anila Bello, University of
Massachusetts Lowell.

3:45 p.m.-4:15 p.m.

Specific Worker Protection With
Remote Real-Time Air Monitoring
Strategies and Hazard Communication

— The Sentinel Protocol
Presenter: Derek Kliethermes. Center

The Isolated Worker — Chemical-

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.

1 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.

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with the are included in OnDemand.

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

■ 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.

*DIO: 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.

AlHce EXP 2022 •

• 30

Student Poster Session Author Attend Time

2nd Floor Prefunction

Topics: Academic Track, Aerosols & Airborne Particulates, Big Data, Biosafety/Microbiology, Changing Workplaces, Workforce, and Work Arrangements, Chemical Hazards, Communicating OEHS Concepts, Engineering Controls and Ventilation, Epidemiology, Hazard Recognition/ Exposure Assessment, Healthcare. Protective Clothing and Equipment, Safety, Standards, Regulations and Legal Issues, Total Exposure Health/Total Worker Health®

See pages 56–58 for posters on these topics. For a full list of co-authors and detailed abstracts, see AlHce 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 AlHce EXP glow all year long with EXP+, AlHA'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.



AIHE Eun Run

May 24, 2022 #AlHFFunRun

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



Silver

amazon Alliant





6:30 a.m.-7:30 a.m.

- AlHA Real Time Detection Systems
 Committee Meeting, Omni, Legends
 Ballroom F
- AlHA 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: AlHA LAP's Plans for Accredited Sampling, Room 209 A
- E4: Interesting and Unusual NIOSH Health Hazard Evaluations, Part 1, Room 103 A
- Women With Families Arising From COVID-19, Room 205 A

- E6: Lights, Camera, COVID-19, Room 105 A
- E7: Climate Change Challenges and Opportunities for OH&S, Room 106 A
- E8: Process Safety Management/Risk Management Program Compliance Audit Success and Failure, Room 207 A
- E9: Science and Power of Stories
 Affects Risk Perceptions, Room 104 A
- E10: Strategies to Apply and Successfully Sit for the CIH Exam, Room 207 C
- Learning Pavilion: Methods to Collect and Present Performance Metrics for Industrial Hygiene Programs by VelocityEHS, Show Office B, Level 3M outside Exhibit Hall B

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

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.



Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with do are included in OnDemand.

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Pop-Up Education and Health & Wellness Schedule

	Pop-up Education	Health and Wellness
	Under the grand staircase on Level 1	Behind the main escalator
Time	across from Room 102	at the 5th Avenue entrance
8:00 a.m8:25 a.m.	Data Stewardship for Product Stewards	
	Presenter: Ruth Donlon, Sphera	
8:30 a.m8:55 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	Relaxation Techniques in the
	Presenter: Laura Parker, ALS Environmental	Workplace
		Presenter: Small World Yoga
10:30 a.m.–10:55 a.m.	There's an App for That	Chair Yoga (Yoga at Your Desk)
	Presenter: Mark Rollins, A-EHS	Presenter: Small World Yoga
11:00 a.m.–11:25 a.m.	Dealing With Heat at a Construction Site	Intro to Meditation
	Presenter: Philip Pederson, Consultant	Presenter: Small World Yoga
11:30 a.m.–11:55 a.m.	m. Preventing Ergonomics Program Failure	
	Presenter: James McGlothlin, McGlothlin Ergonomics,	
	LLC	
2:00 p.m.–2:25 p.m.	Managing IEQ in a Variable Future	It All Begins With the Breath
	Presenters: Chris James, Trane Technologies; Jack	Presenter: Bruce Kelly
	Springston, Atlas Technical Consultants	
2:30 p.m.–2:55 p.m.	Mental Health in the Workplace—Taboo or	Anti-Anxiety Toolbox
	Recognized Risk?	Presenter: Bruce Kelly
	Presenter: Brad Jones, LyondellBasell	
3:00 p.m.–3:25 p.m.	Safe Handling of Investigational Medications	Tapping
	Presenters: Linette Leadon; Tina Henderson,	Presenter: Bruce Kelly
	University of Texas MD Anderson Cancer Center	
3:30 p.m.–3:55 p.m.	n. Case Studies in Ventilation Controls Introduction to Hypnosis	
	Presenter: Carl Farley, Utah State University Presenter: Bruce Kel	
4:00 p.m.–4:25 p.m.	ATP Testing for Cleaning Procedure Verification	Practicing Self-Hypnosis
	Presenter: Alan Lloyd,	Presenter: Bruce Kelly
	Pennoni Associates, Inc.	

Innovation Station Schedule

Time	Sponsor	Exhibit Hall Aisle 400
9:10 a.m.–9:35 a.m.	LIFEBOOSTER	How Multi-Point Wearable Systems Enable All-in-One Risk Assessments
11:30 a.m.–11:55 a.m.	nanozen know the air you breathe	Moving Personal Particle Monitoring into Operational
12:05 p.m.–12:30 p.m.	ABET	Why Become an ABET Program Evaluator?
12:40 p.m.–1:05 p.m.	STAT PEEL	Material-Specific Monitoring of Workplace Aerosol Exposure
1:15 p.m.–1:40 p.m.	CASELLA	Advances in High Flow Pumps and Wireless Connectivity
2:00 p.m.–2:25 p.m.	bsi.	Future Ready: How Emerging Technology Can Innovate Industrial Hygiene

9:00 a.m.-10:00 a.m.

Career Advantage Fair Résumé Critiquing,
 Room 206 B

9:00 a.m.-3:30 p.m.

Exhibit Hall Open, Exhibit Halls A and B

9:00 a.m.-4:00 p.m.

Career Advantage Fair, Room 206 B

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

- ► P1: Research Roundup: Climate Change 2, Room 102 A
- F2: Research Roundup: Aerosols 4, Room 207 A

- F4: Interesting and Unusual NIOSH
 Health Hazard Evaluations, Part 2, Room 103 A
- F5: Opioids and Cannabis, Part 1, Room 106 A
- F6: Steps to Define and Execute a
 National Strategy for Elastomeric Half-Mask
 Respirators (EHMR) in Healthcare, Room 202 A
- F7: Possibilities and Challenges With Sustainable Development Goals, Room 205 A
- F8: Emerging Issues and the Future of Work, Part 1, Room 105 A
- F9: The Role of the OHS Professional in TV, Film, and News Productions, Room 104 A
- F10: Conquer Your Career Path, Room 207 C

10:00 a.m.-11:30 a.m.

AIHF Board of Trustees Meeting, Omni,
 Gibson Ballroom

10:00 a.m.-12:30 p.m.

Career Advantage Fair Mock Interviewing,
 Room 206 B

11:00 a.m.-11:15 a.m.

Continue the Conversation - F10: Conquer
 Your Career Path, 2nd Floor Prefunction
 between Rooms 203 and 206

11:15 a.m.-12:15 p.m.

- G1: Research Roundup: Indoor Environmental Quality 1, Room 104 A
- G2: Research Roundup: Big Data 1, Room 102 A
- 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
- G4: Celebrating Global AlHA Microgrant Recipients, Room 202 A
- G5: Opioids and Cannabis, Part 2, Room 106 A
- G6: Effective Communication in the Time of Big Data, Artificial Intelligence, and Machine Learning, Room 105 A
- G8: Emerging Issues and the Future of Work, Part 2, Room 103 A

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

AIHA Main Stage Schedule

All held in the Exhibit Hall, AlHA Booth 925

Time	Topic
	ENCORE PRESENTATION:
10:30 a.m.–10:55 a.m.	Commit to CARE: The
10.30 d.111.—10.33 d.111.	Science Behind the
	Movement
	Grand Challenges for
Noon 12:25 n m	Worker Health, Safety and
Noon–12:25 p.m.	Well-Being: How Can You
	Get Involved?
	Etool to Train Students, Early
	Career Professionals, and
1:30 p.m.–1:55 p.m.	OEHS Professionals in the
	Hazards Associated With
	Various Market Segments
2:30 p.m.–3:15 p.m.	Biological Monitoring –
	A Practical Field Manual
	for Health and Safety
	Professionals

Full session descriptions may be found in the mobile app.

Events take place at the Music City Center unless otherwise noted.

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.-3:00 p.m.

- H1: Research Roundup 1: Lab Health and Safety, Room 207 A
- Recognition and Exposure Assessment 3, Room 103 A
- H3: Hazards and Exposure Risks of British Columbia Wildfire Firefighters, Room 102 A
- H4: Occupational Hazards in Seattle's Strip Clubs, *Room 105 A*
- H5: Leveraging Global OEHS and Public Health Partnerships During the Pandemic, Room 106 A
- H6: How Big Data, AI, and ML Are Changing the EHS Profession, Room 104 A

- H7: A Holistic Approach to Facility and Worker Health and Safety in a World of Rising Tides and Shifting Weather Patterns, Room 209 A
- H8: Movie Matinee, Part 1 Building the
 American Dream (Movie Viewing), Room 205 A
- H10: Decoding the Alphabet Soup, Room 207 C

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: Changing Workplace, *Room 105 A*
- I2: Research Roundup: Hazard Recognition
 and Assessment 4, Room 202 A
- ☐ I3: Research Roundup: Emergency Preparedness, Room 104 A
- 14: A Risk Assessment Approach to Surface Contamination Under USP 800, Room 102 A
- ☐ I5: Recognizing Potential Exposures to Biological Hazards and Avoiding the Resultant Injury and Illnesses, Room 106 A

- I6: An Integrated Prevention Through Design
 Approach to Hazard Analysis, Room 209 A
- I8: Movie Matinee, Part 2 Building the American Dream (Film Discussion), Room 205 A
- I9: Why Don't We See the Things That Can Hurt Us?, Room 103 A
- I10: Characterization of Fugitive Emissions Produced From Compact Laser Cutting, Room 207 C

3:30 p.m.-5:00 p.m.

Workplace Health Without Borders/
 Workplace Health Without Borders-US
 Meeting, Omni, Legends Ballroom A

4:00 p.m.-6:00 p.m.

 University of Texas School of Public Health Industrial Hygiene Alumni Social (For Alumni and Guests), Omni, Acoustic

4:30 p.m.-5:30 p.m.

- J1: Research Roundup: Safety, Room 105 A
- J2: Research Roundup: Noise, Room 207 A
- J3: Research Roundup: Respiratory Protection 1, Room 103 A
- 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
- J6: Fostering Industrial Hygiene
 Programs at a Safety Company, Room 104 A
- J8: Validation of OHS Controls and Emerging Technologies to Reduce Risk, Room 205 A

Sessions marked with will be broadcast for Virtual AIHce EXP.

Sessions marked with the are included in OnDemand.

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

- Inclusion in a Post-Pandemic World,

 Room 106 A
- J10: Potential Determinants of Pneumoconiosis Resurgence in Central Appalachia Underground Coal Miners, Room 207 C

4:30 p.m.-6:30 p.m.

University of Michigan Alumni & Friends Social Hour, Omni, Bass

5:00 p.m.-6:00 p.m.

AIHA Mentoring Speed Networking, 4th Floor Lobby

5:30 p.m.-8:30 p.m.

MakuSafe Wearable Sensor Tech Reception,

Omni, Music Row 4

6:00 p.m.-6:45 p.m.

Namaste With AlHA, Omni, Music Row 2

6:00 p.m.-7:00 p.m.

Draeger, Inc. Reception (by invitation only),
Omni, Legends Ballroom C

6:00 p.m.-7:30 p.m.

- AlHA Career and Employment Services
 Committee, Omni, Broadway Ballroom A
- AlHA Incident Preparedness and Response Working Group Meeting, Omni, Broadway
 Ballroom D
- AlHA Thermal Stress Working Group, Omni,
 Broadway Ballroom J

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

6:30 p.m.-7:30 p.m.

- AlHA Emerging Digital Technologies
 Committee, Omni, Mockingbird 2
- AlHA Social Concerns Committee, Omni, Legends Ballroom F
- AlHA Volunteer Groups Awards Task Force,
 Omni, Mockingbird 3
- AlHA Stewardship and Sustainability
 Committee Meeting, Omni, Broadway
 Ballroom H

6:30 p.m.-8:00 p.m.

AlHA Indoor Environmental Quality
 Committee, Omni, Broadway Ballroom G

6:45 p.m.-8:45 p.m.

 AlHA Named Awards Dinner (by invitation only), Omni, Cumberland 5

7:00 p.m.-7:30 p.m.

AlHA Nano and Advanced Materials Working
 Group Meeting, Omni, Broadway Ballroom B

7:00 p.m.-8:00 p.m.

AlHA Construction Committee, Omni,
 Broadway Ballroom C

7:00 p.m.-8:30 p.m.

AlHA Leadership and Management
 Committee Meeting, Omni, Broadway
 Ballroom K





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In tandem with AIHce EXP,
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deep discounts
on select education offerings.

- Top 20 Publications
- Top 10 eLearning
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Visit AIHA booth #925 for more information or shop online!

SHOP NOW

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.

8:00 a.m.-9:00 a.m.

El: 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.

C3: 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.

Presenters: 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 McGlothlin, McGlothlin Ergonomics.

■ E6: Lights, Camera, COVID-19

Room 105 A

Moderator: Jodi Johnson, BluMetric Enviromental. Presenters: Lydia Renton, BluMetric Enviromental; Khara Huhta, BSI Consulting Services.

☐ €7: Climate Change Challenges and Opportunities for OH&S

Room 106 A

Moderator: David Roskelley, R&R Environmental, Inc. Presenters: 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.

⊆ €9: Science and Power of Stories Affects Risk Perceptions

Room 104 A

Moderator/Presenter: Jonathan Klane, Lab Manager Magazine. Sessions marked with will be broadcast for Virtual AIHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

CIO: Strategies to Apply and Successfully Sit for the CIH Exam

Room 207 C

Moderator: Melanie Cady, Amphenol Aerospace. Presenters: Margretta Murphy, SEAM Group; Katie Martin, Mission Support and Test Services, LLC.

Learning Pavilion

VelocityEHS

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.

AlHce EXP 2022 ←

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

FI: 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

Moderator: Edward Stuber, SGS North

American DBA SGS Galson.

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 Borg, Furging Built

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

Moderator: Robert Kirkby, Michigan State Police. Presenters: Peter Harnett, COEH, Inc.; Jonathan Rosen, National Clearinghouse for Worker Safety & Health Training.

*F6: Steps to Define and Execute a National Strategy for Elastomeric Half-Mask Respirators (EHMR) in Healthcare

Room 202 A

Moderator: Lee Greenawald, 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, AHOHProjects; 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

Moderator: Taylor Tarpey, Cardno ChemRisk. Presenters: Corey Boles, Laura Allen, A. Michael Ierardi, Cardno ChemRisk.

* FIO: Conquer Your Career Path

Room 207 C

Moderator: Joy Jacobsen, Amsted Rail.

Presenter: Jenn Holliday, 3M.

Sessions marked with will be broadcast for Virtual AIHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

11:15 a.m.–12:15 p.m.

GI: 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.



AlHce EXP 2022 ←

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Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with are included in OnDemand.

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

☐ 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.

GIO: 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 AlHce 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, Emauele 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.



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

2:00 p.m.-3:00 p.m.

HI: Research Roundup I: 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.

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.

2:30 p.m.-3:00 p.m.

Infection Risk Modeling of SARS-CoV-2 in Air and on Surfaces at a University Campus

Presenter: Xin Zhang, University of Michigan Dept Env Health Sci.

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

Sessions marked with $^{\circ}$ are included in OnDemand.

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

H8: Movie Matinee, Part I — Building the American Dream (Movie Viewing)

Room 205 A

Moderator: Kathie Lavaty, ESi.

HIO: Decoding the Alphabet Soup

Room 207 C

Moderator/Presenter: Timothy Stirrup,
Parvati Consulting LLC. Presenter: Kelsey
Forde, Parvati Consulting LLC.

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.

3:15 p.m.-4:15 p.m.

☐ II: Research Roundup: Changing Workplace

Room 105 A

Moderator: Laurence Svirchev, Svirchev OHS Management Systems.

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.

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



12: 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. 3:45 p.m. – 4:15 p.m.

Perspectives From the Field — Results From a U.S. Exposure Assessment and Epidemiological Study on Carbon Nanotube and Nanofiber Workers Presenter: Matthew Dahm, NIOSH.

☐ 13: 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.

3:45 p.m. – 4:15 p.m.

Illicit Drugs to Inform Future PPE
Guidance and Research Needs
Presenter: Lee Greenawald, CDC/
NIOSH/NPPTL.

☐ 14: A Risk Assessment Approach to Surface Contamination Under USP 800

Room 102 A

Moderator: Amy Snow, GSK.

Presenters: Janet Gould, SafeBridge;

Matthew Meiners, Bureau Veritas; Elaine

Strauss, WorkingBuildings.

IS: Recognizing Potential Exposures to Biological Hazards and Avoiding the Resultant Injury and Illnesses

Room 106 A

Moderator/Presenter: Michael Goldman, ECS Limited.

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

16: 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.

18: Movie Matinee, Part 2 — Building the American Dream (Movie Discussion)

Room 205 A

Moderator: Kathie Lavaty, ESi. Presenter: Chelsea Hernandez, Documentary Producers Alliance.

☐ 19: Why Don't We See the Things That Can Hurt Us?

Room 103 A

Moderator: Glenn Murray, COVE: Center of Visual Expertise. Presenter: Douglas Pontsler, COVE: Center of Visual Expertise.

IIO: 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.

■ JI: Research Roundup: Safety

Room 105 A

Moderator: Christina Roll, AXA, XL.

4:30 p.m.-5:00 p.m.

Calculating COVID-19 Risk Exposure **Using Semiquantitative Tool**

Presenter: Benjamin Heck, Bastion Technologies/NASA Ames Research Center.

5:00 p.m.-5:30 p.m.

Workplace Stress and Associated Factors Among Vehicle Repair Workers in Hawassa City, Southern Ethiopia Presenter: Steven Thygerson, Brigham Young University.

J2: Research Roundup: Noise

Room 207 A

Identification of Complex Noise Sources at Workplaces — An Acoustical Camera Approach

Presenter: Samuel Pendyala, WSP USA.

□ J3: R∈s∈arch Roundup: Respiratory Protection I

Room 103 A

Moderator: Linh Phan, Standford

University.

4:30 p.m.-5:30 p.m.

Preserving What You Got — Health Care Resilience Strategy to Preserve PPE in the Midst of COVID-19

Presenter: Joselito Ignacio, DHS/FEMA.

□ J4: R∈sults of a NIOSH Health Hazard Evaluation of Styrene Exposures During Curedin-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.

Sessions marked with

will be broadcast for Virtual AlHce EXP.

Sessions marked with the are included in OnDemand.

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

JIO: Potential Determinants of Pneumoconiosis Resurgence in Central Appalachia Underground Coal Miners

Room 207 C

Presenter: John-Paul Angulo, UCLA.

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.



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.

AlHA Opioids Working Group Meeting,
 Omni, Music Row 4

6:30 a.m.-7:15 a.m.

Namaste With AlHA, Omni, Music Row 2

6:30 a.m.-8:00 a.m.

AlHA 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

Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

- ◆ 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 104 A
- K7: Assessing Warehouse Fires Using Common Industrial Hygiene Principles, Room 202 A
- Room 106 A
 K8: Ethics in Risk Management, Part 1,
- 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

Pop-Up Education and Health & Wellness Schedule

	Pop-up Education	Health and Wellness
	Under the grand staircase on Level 1	Behind the main escalator
Time	across from Room 102	at the 5th Avenue entrance
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 Sall, 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 Stefaniak, NIOSH.	
3:00 p.m.–3:25 p.m.	Hearing Protection Fit Testing in Construction Presenter: Sharath Smith, 3M	

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.

AlHA 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.-1:00 p.m.

Exhibit Hall Open, Exhibit Halls A and B

9:00 a.m.-4:00 p.m.

Career Advantage Fair, Room 206 B

9:15 a.m.-10:15 a.m.

AlHce EXP 2022 •

- L1: 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

- L5: The Fellows SIG Debate, Part 2: Do
 Our Membership Organizations Exist to Serve
 Their Memberships or Public Health Needs?,
 Room 205 A
- L7: Basic Assessment Tools and Cost Justification Included in the IH Performance Metrics' Ergonomics Chapter, Room 104 A
- L8: Ethics in Risk Management, Part 2, Room 106 A
- L9: Common Mistakes With the Application of a Risk Matrix, Room 207 C
- L10: Emergency Preparedness: Is the Workplace Truly Prepared for Emergencies?, Room 105 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

- M7: The State of Innovation in Ergonomics (MSD 2025), Room 207 A
- M8: Three Case Studies of Managing Remote Office and Industrial Ergonomics Processes, Room 102 A
- M9: An AlHA Business Case for PtD Value Communication, Room 209 A
- M10: Nanoparticle Emission From 3D Printing, Room 104 A
- Poster Session 3 Author Attend Time, 2nd Floor Prefunction
- AlHA Improving Exposure Judgments
 Initiative, Omni, Cumberland 3

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 102 A
- N2: Research Roundup: Hazard Recognition and Exposure Assessment 5, Room 103 A

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



Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with do are included in OnDemand.

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

- N3: Research Roundup: Indoor Environmental Quality 3, Room 207 A
- N4: Unique Hazards in the Agriculture and Maritime Industries' Notable Confined Spaces, *Room 205 A*
- N5: COVID-19 and the Future of Work, Room 106 A
- 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
- N8: Advancing Injury Prevention Through AI and Wearable Technology, Room 104 A
- N9: AlHA's and Your Role in Consensus Standards, Room 209 A

AIHA Main Stage Schedule

All held in the Exhibit Hall, AIHA Booth 925

Time	Topic
	C.L.E.A.N. Summits: Learning
10:00 a.m.–10:25 a.m.	Lessons about Biosafety and
	the Built Space
	ENCORE: How to Get
11:30 a.m.–11:55 a.m.	Published: Tips for Early
	Career Researchers
Noon–12:15 a.m.	How to Write a Peer Review

Events take place at the Music City Center unless otherwise noted.

Full session descriptions may be found in the mobile app.

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
- □ 07: 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

Moderator: Donna Heidel, Amazon.



4:45 p.m.-5:15 p.m.

Alha Annual Business Meeting, Omni, Legends Ballroom F

5:30 p.m.-6:30 p.m.

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

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



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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

Moderator: Anthony Towey, Jr, U.S. DOL – OSHA. Presenters: Tanya Parker, Michael Scime, U.S. DOL – OSHA.

K4: Confined Spaces Flammable Toxic Spray Painting Precautions

Room 105 A

Moderator/Presenter: Arlen Siert, Xcel Energy.

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



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

Moderator: Ben Kollmeyer, Forensic Analytical Consulting Services, Inc. Presenters: Megan Canright Racicot, Forensic Analytical Consulting Services, Inc.; Alberto Comazzi, Sanipur US LLC; Brian Shelton, PathCon Laboratories.

K7: Assessing Warehouse Fires Using Common Industrial Hygiene Principles

Room 202 A

Moderator: Mike Smith, Wood.

Presenters: Michelle David, Wood.

■ 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.

□ KIO: An Industrial Hygienist's Perspective of COVID-I9 Lessons Learned

Room 102 A

Moderator: Dyron Hamlin, GHD.

Presenters: David Regelbrugge, Ben

Chandler, GHD.

9:15 a.m.-10:15 a.m.

LI: 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 Heartrate for Select Tasks in a Craft
Brewery

Presenter: Dave Huizen, Grand Valley State University.

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

Moderator: Anthony Towey, Jr, U.S. DOL – OSHA. Presenters: Wajeeha Akram, Ryan Cooney, U.S. DOL–OSHA.

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 IH Performance Metrics' Ergonomics Chapter

Room 104 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.

LIO: Emergency Preparedness: Is the Workplace Truly Prepared for Emergencies?

Room 105 A

Moderator/Presenter: Douglas DeMoulin, University of Minnesota. **Presenter:** Don DeMoulin, ACE. Sessions marked with will be broadcast for Virtual AlHce EXP.

Sessions marked with the are included in OnDemand.

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

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 Nanoengineering.

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



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

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.

☐ MIO: 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

Sensor Technology

Topics: Aerosols & Airborne Particulates, Chemical Hazards, Emergency Preparedness & Response, Healthcare, Laboratory Health and Safety, Nanotechnology, Protective Clothing and Equipment, Risk Assessment and Management, Sampling and Analysis, See page 58 for posters on these topics. For a full list of co-authors and detailed abstracts, see AlHce EXP 2022 website.

1:00 p.m.-2:00 p.m.

■ NI: 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.

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.

AIHce EXP 2022 •

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■ 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.

1:30 p.m.-2:00 p.m.

Quantitative Sampling of Terpenes
Using Carbon Adsorbent-Based
Thermal Desorption with Gas
Chromatography

Presenter: Jamie Brown, MilliporeSigma.

*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-I9 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 Al 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.

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Sessions marked with the are included in OnDemand.

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

■ NIO: A Multidisciplinary Approach to the Implementation of Respiratory Protection Programs in Healthcare Facilities During the COVID-I9 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.

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





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2:15 p.m.-3:15 p.m.

Ol: Research Roundup: Risk Assessment 3

Room 207 A

Moderator: Xin Zhang, University of Michigan Dept Env Health Sci.

2:15 p.m.-2:45 p.m.

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.

2:45 p.m.-3:15 p.m.

Work Exposures and Occupational Safety and Health Intervention Needs Among Michigan Nail Salon Workers Presenter: Aurora Le, University of Michigan School of Public Health.

O2: Research Roundup: Hazard Recognition and Exposure Assessment 6

Room 209 A

Moderator: Daniel Autenrieth, Montana Tech. 2:15 p.m.–3:15 p.m.

Transfer of Copper onto Skin Following Repeated Contacts

Presenter: Tyler Ferracini, Jennifer Sahmel, Insight Exposure and Risk Sciences.

☐ 04: The Nature of Electrostatic Spark Hazards and Practical Measures for Control

Room 105 A

Moderator/Presenter: Vahid Ebadat, Stonehouse Process Safety.

© 05: 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.

© 06: Qualitative Exposure Assessment Tool for Initial Screening

Room 102 A

Moderator: John Hoskins, Procter & Gamble. Presenters: Jill Karner, Procter & Gamble.

■ 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-I9 Pandemic

Room 103 A

Moderator: Patrick Wallace, US Coast Guard. Presenters: Kasey Arguelles, Erik Heithaus, Carrie Foster, US Coast Guard.

OIO: Aerosol Dispersion of Submicrometer Particles in an Aircraft Cabin

Room 202 A

Moderator: Changjie Cai, University of Oklahoma Health Sciences
Center. Presenters: Yu Feng, Arvind Santhanakrishnan, Mitchell Ford, Oklahoma State University; Stephanie Vannarath, Peter Kim, University of Oklahoma Healthe 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

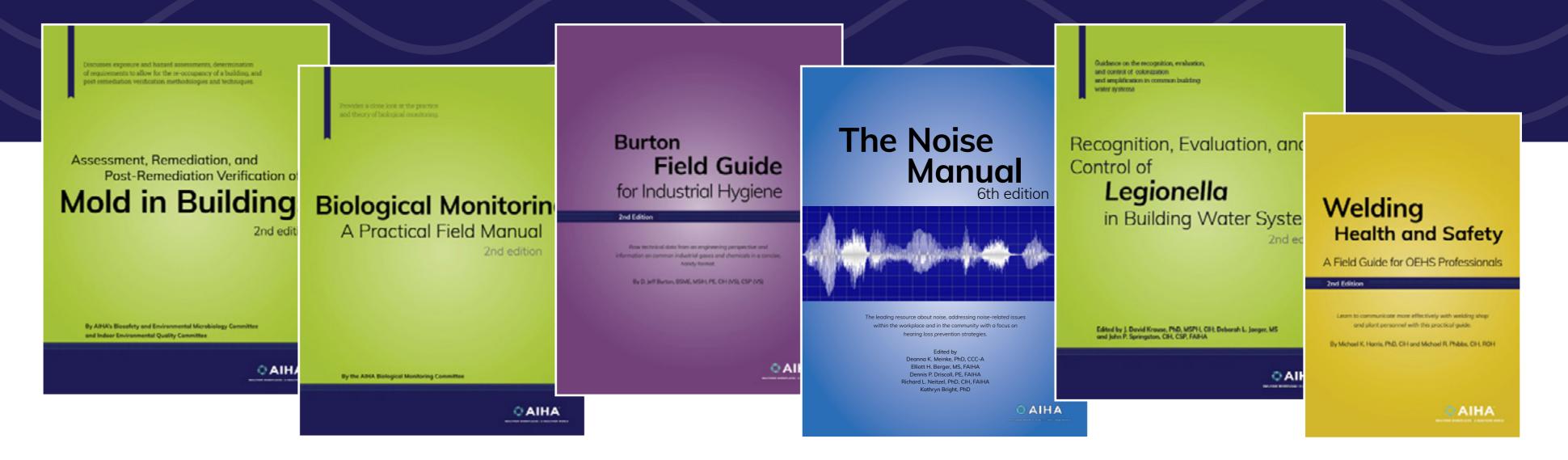
to the future of work and discuss how the occupational safety and health community can best prepare for the challenges and opportunities to come.

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



AlHce EXP 2022 ←





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
- The Noise Manual, 6th edition
- Recognition, Evaluation, and Control of Legionella in Building Water Systems, 2nd edition
- Welding Health and Safety: A Field Guide for OEHS Professionals, 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

Sessions marked with

will be broadcast for Virtual AlHce EXP.

Sessions marked with $^{\circ}$ are included in OnDemand.

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

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



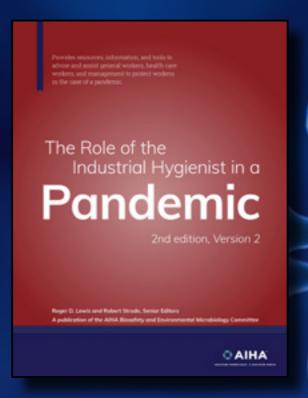




All times listed are Central.



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

AlHce EXP 2022 • **•** | 54



HEALTHIER WORKPLACES | A HEALTHIER WORLD

Booth 925



Visit AIHA's Resource Center in the Expo!

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 Evaluation of Volatile Organic Compound (VOC)
 Emissions from Memory Foam Mattresses and Potential
 Implications for Consumer Health Risk

Presenter: Evan Beckett, Cardno ChemRisk.

- 1230 Using Silicone Wristbands as Personal Samplers to Monitor the Exposures of Airborne Fragrances

 Presenter: Sih Yu Chen, National Taiwan University, Taiwan.
- 1303 Predicting the airborne levels of VOCs and PAHs in indoor environments from their concentrations in household dusts

Presenter: Shih-Wei Tsai, National Taiwan University, Taiwan.

 1355 - Beware the Grizzlyman: A Comparison of Job and Industry-Based Noise Exposure Estimates Using Manual Coding and the NIOSH NIOCCS System

Presenter: Benjamin Roberts, Cardno ChemRisk.

1379 - Consulting and Industrial Hygiene Sound 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 crosssectional 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

Topics: Academic Track, Aerosols & Airborne Particulates, Big Data, Biosafety/Microbiology, Changing Workplaces, Workforce, and Work Arrangements, Chemical Hazards, Communicating OEHS Concepts, Engineering Controls and Ventilation, Epidemiology, Hazard Recognition/Exposure Assessment, Healthcare, Protective Clothing and Equipment, Safety, Standards, Regulations and Legal Issues, Total Exposure Health/Total Worker Health®



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

 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: Allessandra 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.

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.

1469 - Laboratory Evaluation of Hand-Arm Vibration (HAV)
 Exposure during Gasoline-powered Grounds Maintenance
 Equipment Operation

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.

- 1479 Dermal Exposure Assessment of Isobornyl Acrylate use in Photopolymerization 3D Printers

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

Presenter: Dorothy Foulkes, University of Illinois at Chicago.

- 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
- 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.

Birmingham.

- 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.



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

 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.

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: Eric Miller, Cardno ChemRisk.
- 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

Topics: Aerosols & Airborne Particulates, Chemical Hazards, Emergency Preparedness & Response, Healthcare, Laboratory Health and Safety, Nanotechnology, Protective Clothing and Equipment, Risk Assessment and Management, Sampling and Analysis, Sensor Technology

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



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

 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
 Mangement

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.

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



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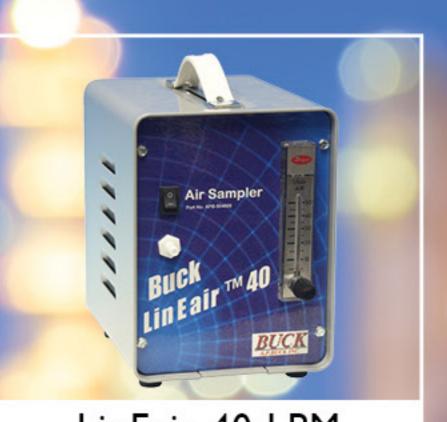








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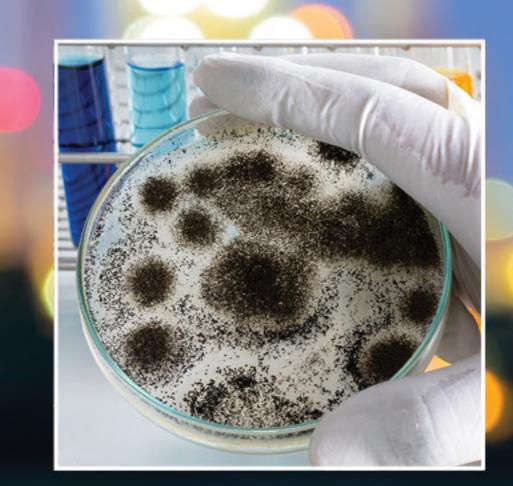


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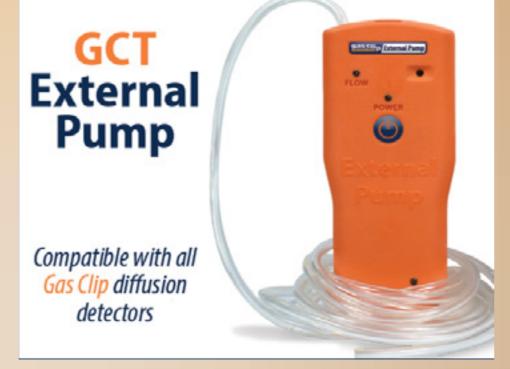
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AlHce EXP 2022 New Product Guide

We are pleased to showcase these newly released products and services.



Vorte:3 CASELLA=





Casella's Vortex3 High Flow Pump Booth IIII

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.

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 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.

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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

LEARN MORE

AlHceEXP.org

Expo Highlights - Exhibit Halls A and B



Expo Hours

Monday, May 23

9:00 a.m.-5:30 p.m.

Expo Only Non-Compete Hours:

9:30 a.m.–10:00 a.m., 12:15 p.m.–1:45 p.m., and 4:30 p.m.–5:30 p.m.

Tuesday, May 24

9:00 a.m.-3:30 p.m.

Expo Only Non-Compete Hours:

9:00 a.m.–10:00 a.m. and 12:15 p.m.–1:45 p.m.

Wednesday, May 25

9:00 a.m.–1:00 p.m.

Expo Only Non-Compete Hours:

11:15 a.m.-12:45 p.m.

AIHA Booth 925 Happenings

AIHA's Head Shot Cafe

Need a new professional head shot — or want an updated one for social media? AlHA 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 AlHF 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 AlHce 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 end of the 500 and 600 aisles

Tuesday, May 24 | 12:30 p.m.—1:00 p.m. AlHce 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.

Pathway Passport

Open the Pathway Passport game in the mobile app/virtual platform, complete each task, and earn points! Prizes will be awarded to the top 5 leaderboard winners. Winning names will be announced Wednesday afternoon, May 25. See page 8 for sponsors.

New Exhibitor Pavilion

700, 800, and 900 aisles

Visit these first time AlHce 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. –1:30p.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. and
3:30 p.m.—3:50 p.m.

Vertical Rescue Demonstrations
1:00 p.m.— 1:20 p.m.

Tuesday, May 21

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 AlHA 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,

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(as of 4/21/2022)

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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.

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AlHce EXP 2022 ←

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Technologies.....1407 320 E Vine Drive Suite 221 Fort Collins, CO 80524 www.accsensors.com 970-818-7520 contact@accsensors.com

AccuTec-IHS.....505



1408 South Denver Avenue Tulsa, OK 74119 www.accutec.com 800-896-6959

info@accutec.com



For the most up-to-date list and company descriptions, visit the AIHce EXP 2022 exhibitor directory.

3640 Park 42 Drive Cincinnati, OH 45241 www.acgih.org

513-742-2020

customerservice@acgih.org

Advanced Chemical <u>Testing</u>......1324

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561-338-3116 spetrunick@acsbadge.com

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43760 Trade Center Place Suite 100 Dulles, VA 20166 www.aerobiology.net 919-808-4060 claire@aerobiology.net

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dcalhoun@affygility.com

AIHA......925



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infonet@aiha.org

AIHA Laboratory Accreditation Programs, LLC......1535

3141 Fairview Park Drive Suite 777 Falls Church, VA 22042 www.aihaaccreditedlabs.org

cmorton@aiha.org

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ALS Environmental 913

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www.alsglobal.com 801-266-7700 800-356-9135

roxanne.olson@alsglobal.com

AMETEK MOCON......619

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www.ametekmocon.com

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www.asafe.com 717-650-4672 john.simcoe@asafe.us

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Bio-Rad Laboratories Inc.. 718

University Row

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2000 Alfred Nobel Drive Hercules, CA 94547

www.bio-rad.com/en-us/food-<u>science</u>

800-424-6723 Ask_Customer_Care@bio-rad. com

Blackline Safety 732

803 24 Avenue SE Suite 100 Calgary, AB T2G 1P5

Canada

www.blacklinesafety.com

403-606-5196 mirvine@blacklinesafety.com

Board for Global EHS Credentialing.....1406

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administration@GoBGC.org





Innovation Station



NEW! New **Exhibitor**

Pathway Passport



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BSI......403



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800-806-5887 ih_group@BureauVeritas.com

NEW! Cardno ChemRisk... 819

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www.coreoccupational.com 225-456-2243 Lbriner@coreoccupational.com

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416-457-3949 erin.hanson@cority.com

CTEH......509 5120 Northshore Drive North Little Rock, AR 72118 www.cteh.com 501-801-8500 atownsend@cteh.com

DataChem Software, Inc. .. 834 P.O. Box 2458

Acton, MA 01720 www.datachemsoftware.com

800-377-9717 hugh.oxnard@ datachemsoftware.com

Defiant Technologies, Inc. 532

6814 Academy Parkway W NE Suite A Albuquerque, NM 87109 www.defiant-tech.com 505-999-5880

Draeger Inc.....616





ryan.burton@draeger.com

michele@defiant-tech.com

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DuPont Protection Solutions 1217



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E.A.R., Inc......1241 P.O. Box 18888 Boulder, CO 80308 www.earinc.com 303-447-2619 andrew@earinc.com

NEW! Ear Technology Corporation.....809 P.O. Box 1017

Johnson City, TN 37605 www.eartech.com 423-928-9060 info@eartech.com

NEW! EFI Global 1334 3030 North Rocky Point Drive W

Suite 530 Tampa, IL 33607

www.efiglobal.com 813-386-7782 Malinda.labar@efiglobal.com

NEW! Electro Optical Components/SemeaTech.. 804

5464 Skylane Boulevard Suite D Santa Rosa, CA 95403 www.eoc-inc.com

707-568-1642 855-362-6300 billbolster@eoc-inc.com **NEW!** Emergency Response Services, Inc......1447 26805 John T. Reid Parkway Scottsboro, AL 35768 www.erstraining.com

EMSL Analytical, Inc..... 1103



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Equivital.....1402



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Innovation
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Learning Pavilion

NEW! New Exhibitor

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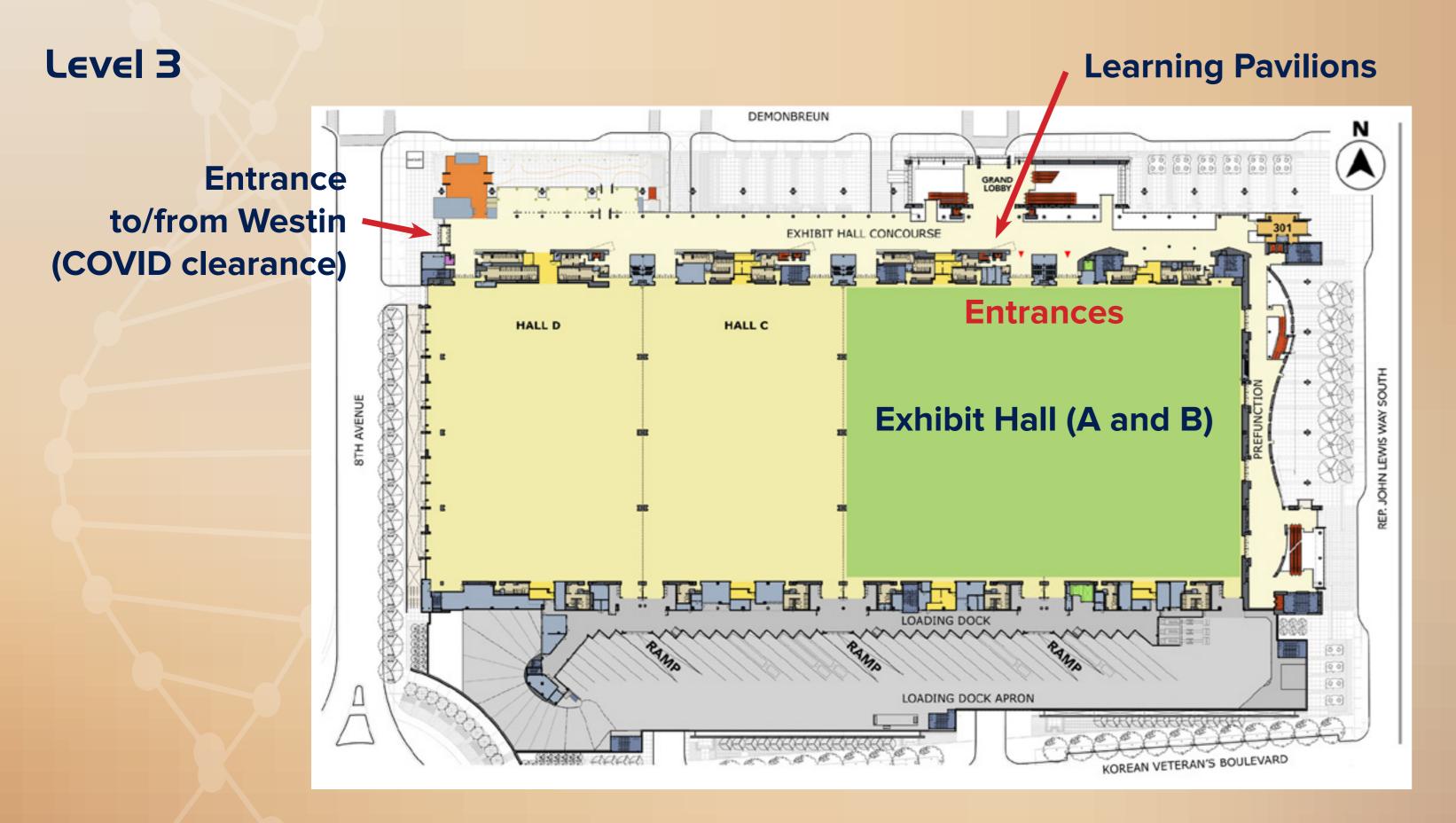
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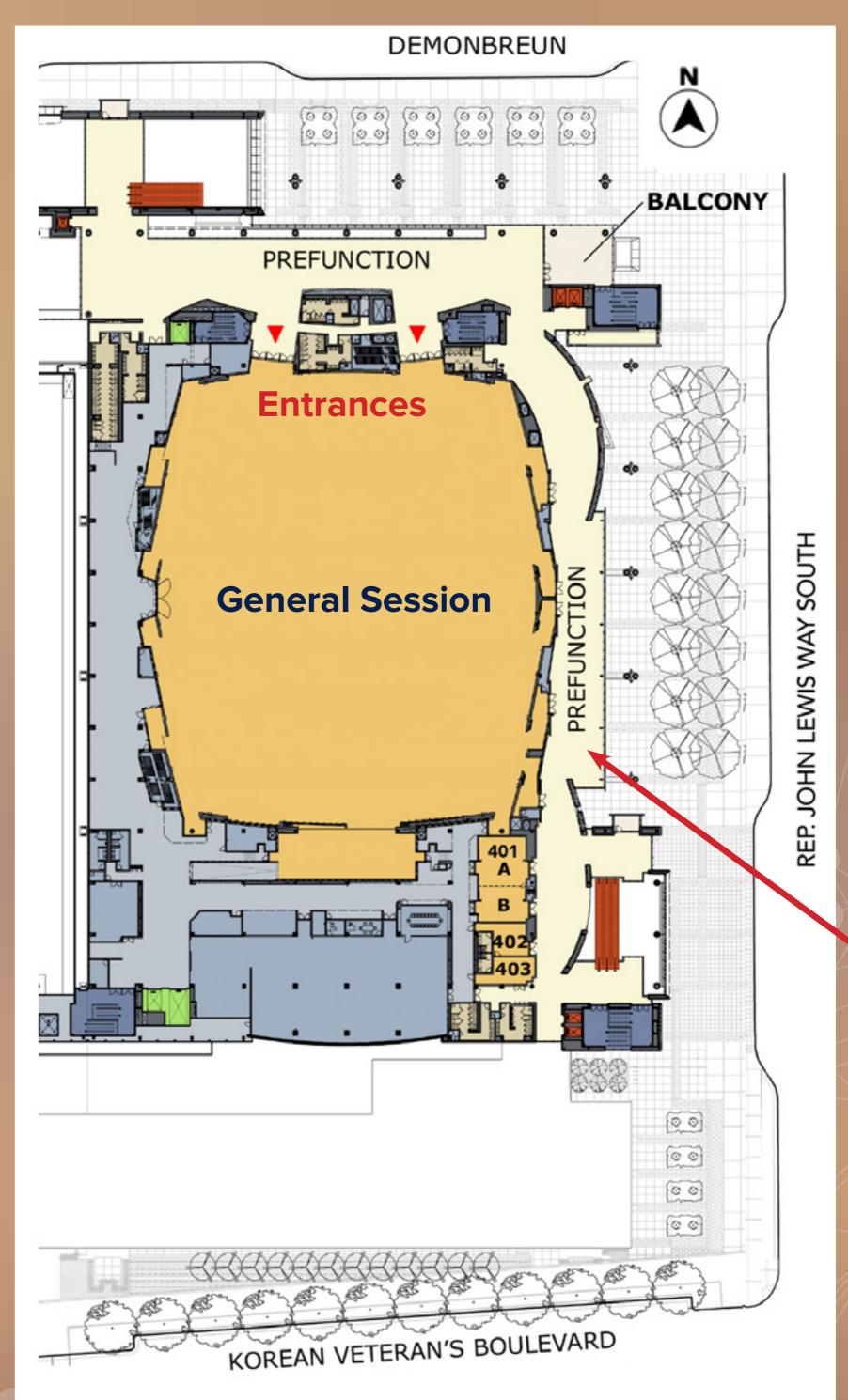
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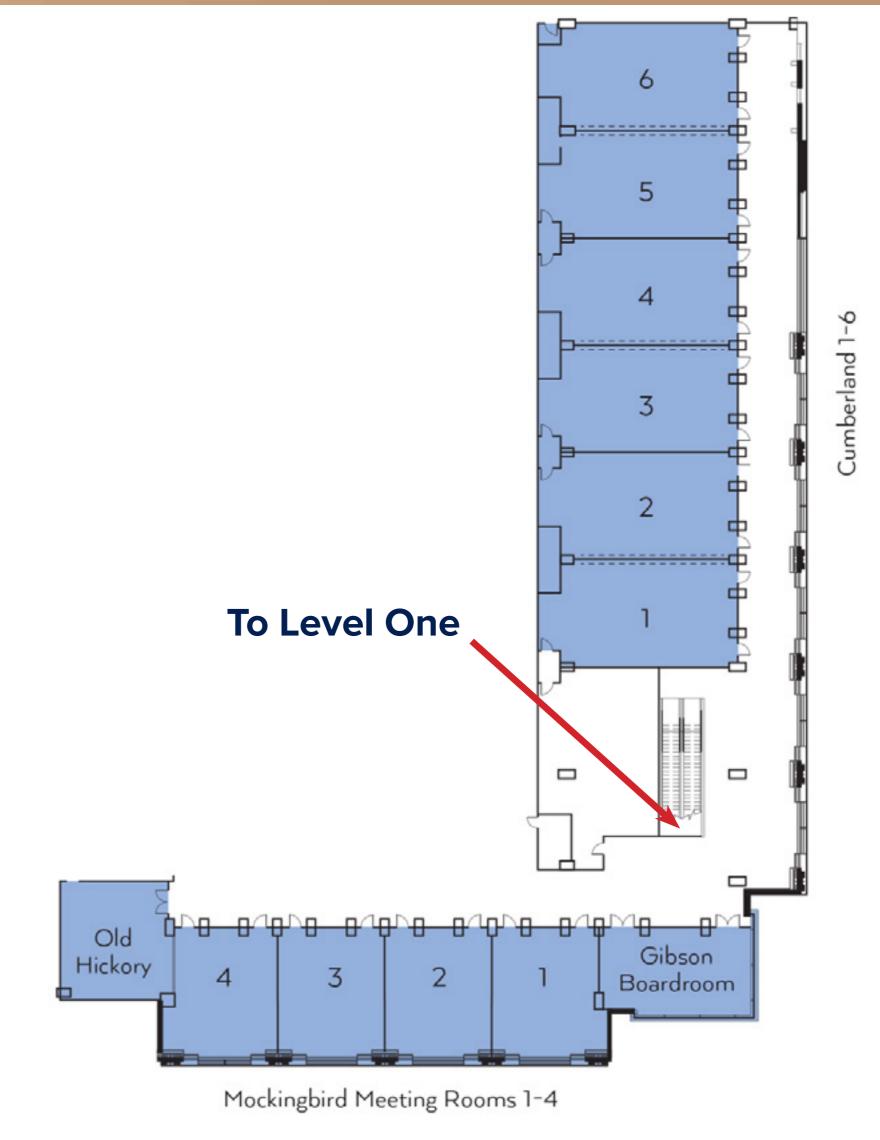
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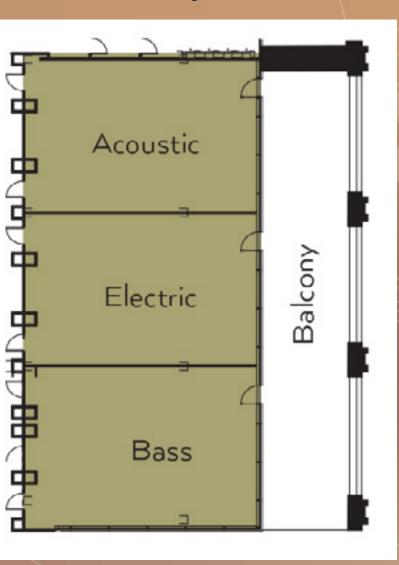


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