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

MAY 20-22
MINNEAPOLIS
MN
PDCs: MAY 18, 19, and 23

www.AIHce2019.org

ADVANCE PROGRAM

Save $300
Register by March 17
and book housing in the AIHce EXP block
Know your workers are safe...

EVEN WHEN THEY CAN’T BE SEEN.

Whether you have people entering confined spaces or hazardous zones, the RGX™ Gateway sends location and alarm data from wireless gas detectors to a designated responder who can help.

See the RGX Gateway in action at booth #1415.
The newly created SPARKtalks are a fusion of the best parts of Ignite and TED Talk presentations. This format provides a casual, collegial atmosphere for attendees and will be a great start to this year’s conference. Thirteen SPARKtalks presenters will share their stories about “One Moment in Time,” volunteering, battling serious illness, eradicating asbestos, participating in post-hurricane recovery efforts, responding to Ebola, and others that had a profound effect on their lives and careers.

After the presentations, attendees will have an opportunity to speak with presenters, network, and socialize. A cash bar will be available.

Monday, May 20
8:00 a.m.–9:30 a.m.
Opening General Session
Lessons in Leadership
Carey Lohrenz
First Female U.S. Navy F-14 Tomcat Fighter Pilot, Team-Building/Leadership/Strategy Expert & Author

Carey Lohrenz offers lessons for succeeding in dynamic, challenging environments and effective team-building strategies for leading organizations to peak performance.

As the first female U.S. Navy F-14 Tomcat fighter pilot, Lohrenz knows what it takes to succeed in one of the most demanding, extreme environments imaginable – the cockpit at Mach 2. The same qualities that helped her break barriers and make naval aviation history can also help you accomplish more than you ever imagined.


Drawing on a trailblazing career in the U.S. Navy, Lohrenz provides critical insight on the importance of setting a bold vision to bring teams together and staying resilient through hard times. Energizing and engaging on stage, her mission-ready strategies for leading fearlessly will help you take charge, navigate high-pressure business conditions, overcome challenges, and realize your vision.

Session and coffee sponsored by

Wednesday, May 22
3:30 p.m.–4:30 p.m.
Closing General Session
Reinventing Health Care and the Importance of Story
Leslie Saxon, MD
Executive Director & Founder of the USC Center for Body Computing

The digital revolution has begun in health care delivery. The use of advanced sensor technology offers the opportunity to write the story of our medical care in a new and empowering way. This time the tale will be written collectively by the patient, provider, and technology. The old health care system will give way to Lifecare, a continuous narrative with the patient as storyteller. With the advent of this new technology, the big data it may generate, and the effects on Total Worker Health, the role of physicians will be to support this new narrative rather than dictate it.

An interventional cardiologist, Leslie Saxon, MD is a professor of medicine and clinical scholar at the Keck School of Medicine of University of Southern California (USC). She specializes in wirelessly connected implantable and wearable devices that treat and diagnose heart conditions and prevent sudden death. Board-certified in cardiology, electrophysiology, and heart failure, Saxon has authored more than 100 articles in various medical journals.

Saxon is also the executive director of the internationally acclaimed USC Center for Body Computing (CBC). The CBC is a place for all USC schools, including medicine, engineering, business, and cinematic arts, to form interdisciplinary relationships and accelerate the future of fully integrated, “connected” medicine. Her active research programs involve connected sensors with elite athletes, military groups, and patients. Her work is dedicated to providing users with continuous and protected information about their health or performance status. She leverages her clinical expertise to develop device models and software solutions that offer engaging user feedback-based, real-time, physiologic data.

Sessions marked with this virtual icon (v) will be broadcast as part of the Virtual AIHce EXP. Sessions and schedule are subject to change.
Pre- and Post-Conference Education

AIHce EXP's professional development courses (PDCs) are in-depth, interactive, and formal learning experiences designed to broaden knowledge, enhance technical competence, and provide practical tools and skills for the workplace. Offered as half-, one-, and two-day courses, there is a separate registration fee for each PDC.

Saturday & Sunday, May 18-19
TWO-DAY PDCs | 8:00 a.m.–5:00 p.m.
PDC 701: Methods and Applications for Real-Time Chemical Detection
PDC 703: OHS Management System Auditor
PDC 704: Exposure Assessment Strategy & Statistics for Managing Occupational Exposures
PDC 705: NFPA 652 and Advanced DHA Workshop NEW
PDC 706: Business Case for Prevention Through Design (PtD) Interventions
PDC 707: Process Safety and Risk Management for the IH

Saturday, May 18
HALF-DAY PDCs | 8:00 a.m.–Noon
PDC 201: Introduction to Toxicology for the IH Professional

FULL-DAY PDCs | 8:00 a.m.–5:00 p.m.
PDC 101: If I’m Teaching, Why Aren’t They Learning?
PDC 102: Fentanyl and High-Potency Drugs Operational Safety NEW
PDC 103: Exposure Judgement — Inhalation Assessments
PDC 104: Design, Select, Operate, and Manage Laboratory Ventilation Systems
PDC 105: Strengthening EHS Leadership & Teamwork
PDC 106: Non-Ionizing Radiation Hands-On Measurements
PDC 107: The Good, the Bad, and the Ugly — EHS at the Worst Plant
PDC 108: Introduction to Chemical Exposure Modeling
PDC 109: Advanced Application of 4-Gas/PID Sensor Technology
PDC 110: Total Worker Health® Maximizing Well-Being NEW
PDC 111: Ergonomics Assessment Tools for the Beginning Practitioner
PDC 112: Exposure Judgment — Dermal Exposure Assessment
PDC 113: Whole Air Sampling Techniques, Application, and Execution

HALF-DAY PDCs | 1:00 p.m.–5:00 p.m.
PDC 301: Comparative Ethics

Sunday, May 19
HALF-DAY PDCs | 8:00 a.m.–Noon
PDC 501: Selection and Use of Powered Air Purifying Respirators NEW
PDC 502: Nanotechnology — Old Theories and New Concepts
PDC 503: Exposure Monitoring Utilizing Thermal Desorption Tubes

FULL-DAY PDCs | 8:00 a.m.–5:00 p.m.
PDC 401: Ergonomics Assessment Tools for the Advanced Practitioner
PDC 402: Cannabis Legalization — Workplace Health and Safety NEW
PDC 403: Tell a Story — Creative Narratives for Better Training NEW
PDC 404: Ensure Safe Entry Into Oddball Confined Spaces
PDC 405: Classification and Management of Hazardous Waste NEW
PDC 406: Emergency Responder Health Monitoring and Surveillance™ NEW
PDC 407: Leadership Principles for OHS Professionals
PDC 408: Noise Control — Effective Engineering Solutions
PDC 409: Welding Exposures and Controls
PDC 410: Forecasting Exposures Using Well Mixed Room Models NEW
PDC 411: Risk Assessment for IHs — Organics, Metals, Nanoparticles

HALF-DAY PDCs | 1:00 p.m.–5:00 p.m.
PDC 601: How to Assess and Manage Nanomaterial Risks
PDC 602: Preparing for the Next Highly Hazardous Communicable Disease
PDC 603: How to Choose the Correct Radiation Detection Instrument

NEW Saturday, May 18, 10:00 a.m.–4:00 p.m.
PDC 2001: Women in IH Leadership Summit

A box lunch is included for participants registered for two-day, full-day, or two (2) half-day PDCs on the same day, and Women in IH Leadership Summit.

Visit www.AIHce2019.org for full descriptions of professional development courses and education sessions, along with credit hours and value adds.
Thursday, May 23

HALF-DAY PDCs | 8:00 a.m.–Noon
PDC 901: Effective Communication Skills for the EHS Professional NEW
PDC 902: Environmental Surface Disinfectants in Health Care – Part 1 NEW
PDC 903: California Proposition 65 Requirements Are Changing NEW
PDC 904: Risk Assessment to Expand the IH Profession
PDC 905: Legionella Assessments — Sampling, Measurement, and Interpretation NEW

FULL-DAY PDCs | 8:00 a.m.–5:00 p.m.
PDC 801: On-Scene Crisis Leadership and Decision Making for Hazmat Incidents NEW
PDC 802: Selling IH Improvements to Management — Regulations Are Not Enough NEW
PDC 803: Chemical Emergencies — Guidelines, Practices, and Procedures NEW
PDC 804: The Sub-Microgram World — The OSHA Beryllium Standard
PDC 805: Understanding Leadership From the Masters
PDC 806: Hearing Loss Prevention — Beyond the Basics
PDC 807: Fundamentals of an Effective Respiratory Protection Program
PDC 808: You Are the New Radiation Safety Officer. Now What?
PDC 809: Surface Sampling — Issues, Methods, and Strategy for Metals, Metalloids, Organics, and Biologicals
PDC 810: The Industrial Hygienist as Expert Witness

HALF-DAY PDCs | 1:00 p.m.–5:00 p.m.
PDC 1001: How Clean Is Clean? Evaluating Indoor Surface Contamination
PDC 1002: Environmental Surface Disinfectants in Health Care — Part 2 NEW

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Aerobiology Laboratory provides comprehensive water testing services for the detection of waterborne pathogens. Our services include cultures for the detection of Legionella species, hospital waterborne pathogens such as Pseudomonas, Mycobacterium, Acinetobacter, Heterotrophic Plate Count (HPC), E. coli, fecal coliforms, Enterococcus, sulfate-reducing bacteria, nitrifying bacteria, and iron bacteria.

Legionella Testing Capabilities:
- CDC Culture Method
- ISO Culture Method
- Legionella Speciation
- Legiolert
- qPCR Testing

Washington, D.C. - Atlanta, GA - Denver, CO - Phoenix, AZ - Cherry Hill, NJ - Los Angeles, CA - Ft. Lauderdale, FL - Chicago, IL
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<td>B5: Cloud Computing and the Internet of Things in Industrial Hygiene Field Analysis</td>
<td>C11: SDS and Label Authoring - Considerations for the Author</td>
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<td>B3: Global Occupational Safety and Health Education and Mainstreaming Collaborations</td>
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<td>B6: A Critical Review of the Development, Use, Advantages, and Disadvantages of Various Banding Approaches in Industrial Hygiene</td>
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<td><strong>IH Profession</strong></td>
<td>A11: Ask the Expert with Carey Lohrenz</td>
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<td>C4: War Stories – Lessons From the Corporate Suite</td>
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<td><strong>Nanotechnology</strong></td>
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<td>D10: Derek E. Dunn Lecture Series: Hearing Loss Prevention – Barriers and Solutions to Success</td>
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<td>Protective Clothing &amp; Equipment/Respiratory Protection</td>
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<td>C1: Scientific Research Studies in PPE – Performance Challenges</td>
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<td>Radiation (Ionizing and Non-Ionizing)</td>
<td>B7: Yucca Mountain Project – Protecting the Health of Workers at the Nuclear Waste Site</td>
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<td>Regulation &amp; Legislation</td>
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<td>C8: Glyphosate and Cancer – Are We in the Midst of a Regulatory Crisis?</td>
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<td>C12: Current NIOSH Risk Assessment Activities for Chemicals</td>
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<td>Sampling and Analysis</td>
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<td>B1: Sampling &amp; Analysis Studies in Unique Settings</td>
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<td>Social Concerns</td>
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<td>D3: Selling Safety – Perspective From a Former Front-Line Supervisor</td>
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### Expo Hall Networking Reception

Monday, May 20 4:30 p.m.–5:30 p.m.
This annual networking tradition offers an opportunity to mingle with exhibitors, presenters, attendees, and AIHA Leadership! The Expo Hall is the perfect spot to explore new products and services, reconnect with friends, and meet new professionals to enhance your network.

### PROTECT YOUR BUSINESS

Reduce your risk and join the AIHA Professional Liability Insurance Program

Insurance for Industrial Hygiene and Environmental Consultants

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<td>Big Data: Management &amp; Interpretation/Computer Applications</td>
<td>E5: Effective Use of Big Data</td>
<td>H5: Data, Data Everywhere, but Not a Drop to Drink: How to Prepare and Use Health and Safety Data for Actionable Insights</td>
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<td>Business Case/Value Strategy</td>
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<td>G2: The Wide World of Lead Exposure – A Look Beyond the Workplace</td>
<td>G10: The Future Is Now: Occupational Robotics and Its Impact on Workers and the Field of Industrial Hygiene</td>
<td>H3: Total Worker Health – Demonstrating the Value of the IH Profession and Getting a Seat at the Table</td>
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<td>Emergency Preparedness &amp; Response</td>
<td>G5: Case Studies in Opioid Decontamination and Cleanup</td>
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<td>I5: NIOSH Health Hazard Evaluations (HHEs) and Lessons Learned Responding to the Opioid Crisis</td>
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<td>Engineering Controls and Ventilation</td>
<td>F5: Current Research Projects in Engineering Controls and Ventilation</td>
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<td>Ergonomics</td>
<td>G6: Computer Workstation Ergonomics – Guiding IHs out of Awkward Positions</td>
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| **Exposure Assessment**     | E8: Interesting OSHA Health Cases – Facts From the Field, Part 1  
G7: Using the www.expostats.ca Bayesian Calculation Platform to Interpret Industrial Hygiene Exposure Levels  
H7: Exposure Assessment in Mining  
J7: Exposure From Toluene in a Historical Product – Validating AIHA IH Mod Using a Fraction of Actual Scale |
| **Health Care**             | E2: Guidance for the Design of Sampling Strategies for Microbial Surface Contamination and Bioaerosols in a Health Care Setting  
H2: Perspectives and Insights From the Surveillance for Anti-Cancer Drugs Exposure (SURFACE) Study  
I8: Respirable Crystalline Silica – Developing and Implementing a Multinational Medical Surveillance Program |
| **IH Profession**           | E10: Fellows Debate  
E11: William P. Yant Award Lecture  
F11: Jeffrey S. Lee Lecture  
J10: Donald E. Cummings Memorial Award Lecture |
| **Indoor Environmental**    | E9: Remediating Mold Growth During Construction  
H9: Healthy School Specialist and Building Assessment Training  
I9: Case Studies in IEQ Methods and Assessments – Fungus, Legionella, and Smoke |
| **Nanotechnology**          | F3: Emerging Technologies – When There Are No Rules, It’s All in the Science and Engineering  
H10: Holistic Noise Exposure Issues – Studies in Military and Nonindustrial Environments |
| **Management/Leadership**   | F12: Win the Day: Using Emotional Intelligence to Be Intentional and Effective and Succeed in Leadership  
G4: Doing More With Less – Building Competency to Develop Your On-Site EHS Teams  
I2: How Rosie the Riveter Became the Forerunner of Today’s Diverse Workplace  
J4: Current Topics in Management – Committees and Curriculum |
| **Noise**                   | F10: Rethinking Hearing Conservation Program Benchmarks  
I10: Holistic Noise Exposure Issues – Studies in Military and Nonindustrial Environments |
| **Protective Clothing**     | E6: Industrial Hygienists’ Introduction to Radon  
J1: Current Studies in Respirator Fit-Testing and Performance |
| **Regulation & Legislation**| F6: Continued Increase in Prevalence of Coal Workers’ Pneumoconiosis (CWP) in the United States and Around the World  
H10: Emerging Issues in Beryllium Regulation and Related Topics  
I12: Mock Trial – Marijuana Employer Liability in Wrongful Death Case, Part 1  
J12: Mock Trial - Marijuana Employer Liability in Wrongful Death Case, Part 2 |
| **Risk Assessment**         | E7: Risk Assessment and Management Application in a Variety of Settings  
G8: Enterprise Risk Management – An Intersection Between Risk Management Paradigms for Industrial Hygienists  
I7: Case Studies in Risk Assessment – Dust Collection, Pulp and Paper Mills, and Refineries  
J8: Using Physiological Monitoring to Evaluate Worker Heat Stress Following the ACGIH TLV Guidance |
| **Safety Management**       | E4: A Systems Approach to Health, Well-Being, and Fatigue  
F4: What Do You Call the Boss of a CIH? Perspective on Leadership in the Industrial Hygiene Field  
H4: Achieving Zero Injuries  
I3: Myths and Realities in Electric Arc Protection |
| **Sampling and Analysis**   | E1: The New OSHA Silica Rule – What We Have Learned Thus Far  
F1: Gas and Vapor Sampling and Analysis  
H1: Developments in Sampling and Analysis Methodology  
I1: Emerging Developments in Consensus Standards for Sampling and Analysis  
J5: NIOSH Right Sensors Used Right – Real-Time Respirable Dust Monitors |
| **Social Concerns**         | H11: Movie Matinee  
I11: Movie Matinee |
<p>| <strong>Sensor Technologies</strong>     | I6: Current Research in Sensor Technologies |</p>
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<td>N5: How Can IH Data Use Be Improved? Standardization of Data Collection Forms, the Current State of Data Storage, and Future Aggregation of Data for More Effective Use</td>
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<td><strong>Communication &amp; Training</strong></td>
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<td>M3: Elevate Your Presence – Strategies for Leveraging Social Media for Health and Safety Professionals</td>
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<td>N9: From Dust to IDLH - Respiratory Protection for Confined Spaces</td>
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<td>L12: New Approaches, Challenges, and Opportunities in Laboratory Testing, Part 2</td>
<td>M12: New Approaches, Challenges, and Opportunities in Laboratory Testing, Part 3</td>
<td>N12: New Approaches, Challenges, and Opportunities in Laboratory Testing, Part 4</td>
</tr>
</tbody>
</table>

Sessions marked with this virtual icon (v) will be broadcast as part of the Virtual AIHce EXP. Sessions and schedule are subject to change.

<table>
<thead>
<tr>
<th>Track/Topic</th>
<th>Wednesday, May 22 9:00 a.m.-10:00 a.m.</th>
<th>Wednesday, May 22 10:15 a.m.-11:15 a.m.</th>
<th>Wednesday, May 22 1:00 p.m.-2:00 p.m.</th>
<th>Wednesday, May 22 2:15 p.m.-3:15 p.m.</th>
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</thead>
<tbody>
<tr>
<td>Noise</td>
<td>L10: Assessing Noise Measurement Methods</td>
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<td>M6: Exposure Assessment of Nonionizing Radiation Sources to Protect Workers With Implanted Medical Devices</td>
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<td>Radiation (Ionizing and Non-Ionizing)</td>
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<td>Safety Management</td>
<td>K3: Safety Management Case Studies – Successful Approaches and Programs</td>
<td></td>
<td>L4: Defining EHS Excellence – Best Practices From Campbell Award Winners</td>
<td></td>
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<tr>
<td>Sampling and Analysis</td>
<td>K1: New Frontier – Metagenomic Sequencing for Microbial Community Analysis as a Potentially Powerful Tool for Industrial Hygienists to Investigate Microbial Contamination (v)</td>
<td>L1: The Validation and Evaluation of Samples and Samplers</td>
<td></td>
<td>N1: Sampling and Analysis of Air Contaminants – Peracetic Acid Vapor, Tear Gas and Pepper Spray, and Diffusive Samplers for Vapor Intrusion and IAQ (v)</td>
</tr>
</tbody>
</table>

Mark of Excellence Awards

Mark of Excellence Breakfast

Wednesday, May 22
7:00 a.m.–8:00 a.m.

To be recognized for exemplary dedication to and expertise in your craft is a distinguished honor. The Mark of Excellence Breakfast recognizes the best and brightest of IH/OH professionals, those who work tirelessly in service to the profession, the association, and the workers they serve, worldwide.

Join your colleagues and peers as we celebrate these amazing men and women, visionary leaders who are taking the profession and its impact to a higher level.

This event is included in all full conference and one-day Wednesday registrations.

Education Credits

AIHce EXP 2019 attendees can earn up to 18 contact hours by attending sessions Monday through Wednesday.

Miss a session or need additional hours for your certification? AIHce EXP OnDemand recordings bring conference sessions right to your doorstep. All full conference registrations receive free access to AIHce EXP OnDemand.

Recordings will be available in late July 2019, and you will have access through December 31, 2019. You will receive an email with access and credit instructions once the recordings are finalized in July.

courses and education sessions, along with credit hours and value adds.
The AIHce EXP Expo is a must-see destination for all attendees.

AIHce EXP’s Expo puts you at the center of the IH/OH industry, bringing you the latest solutions, newest technologies, and important innovators and influencers. You can accomplish more in the three days of the Expo than normally done over the course of weeks.

- **Connect face-to-face** with new suppliers, customers, and business partners
- **Establish valuable connections** that can enrich your career and profession
- **Evaluate and test** the latest products and technology in your area of expertise
- **Upgrade your skills**, knowledge, and on-the-job effectiveness
- **Engage in valuable networking** opportunities with industry experts from the local, national, and global IH/OH community
- **Discuss emerging trends** in the OEHS field and find new avenues to approach future issues and technologies

See who is exhibiting at [www.aihce2019.org/Attend/Expo](http://www.aihce2019.org/Attend/Expo) and make this year’s Expo an important destination during your conference journey.

**New to the Expo EXPerience**
- **New Product Pavilion**: Dedicated to showcasing exhibitors’ newly released products and services. You won’t want to miss this on your Expo explorations!

*Confirmed as of 1/30/19:*

- **Grain Bin and Trench Rescue Demonstrations**: Live rescue demonstrations multiple times daily by South Central College (due to capacity limitations during each live demo, videos of the live demos will air during all open Expo hours)
- **Table Topics**: Topics that address issues of specific interest to young professionals, those new to the profession, and students

**Expo Open Hours**

- **Monday, May 20**
  - 9:00 a.m.–5:30 p.m.
- **Tuesday, May 21**
  - 9:00 a.m.–3:30 p.m.
- **Wednesday, May 22**
  - 8:00 a.m.–1:00 p.m.
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• Opportunities to submit questions for presenters and interact with other virtual participants via chat
• Cost-effective training for individuals, groups, or local sections
• OnDemand access to session recordings post-conference (available in late July)

New to the Virtual EXPerience:
• Virtual Spotlight sessions — Lunchtime sessions featuring interviews with AIHA staff, exhibitors in the Expo Hall, student poster winners, and more
• Peer-to-Peer learning at the Virtual AIHce Content Reflection Hour — Join other virtual attendees to share what you’ve learned throughout the day

First-Time Attendees

Let us help you make the most of your first-time AIHce EXPerience!

Join us for:
• The First Timers Webinar on Tuesday, May 7 at 2:00 p.m. ET. We’ll walk you through what to expect, what to prepare and pack, how to select sessions appropriate for your goals, and more.
• The can’t-miss First Timers Meet and Greet on Monday, May 20 at 6:30 a.m. Here you will meet other first timers with whom you can network, partner up with for sessions, and plot your evening activities.

These first-timer events are sponsored by <DUPONT>

Navigate with an AIHce PAL
The Personal AIHce EXP Liaison (PAL) Program helps first-time attendees get the most out of AIHce by matching the first-timer (or attendees who have not attended AIHce in the last 5 years) with an experienced AIHce attendee.

To request a PAL, sign up during registration.
AIHce EXP Technical Tours

Attendance is limited on these educational tours, so sign up early to reserve your spot.

Monday, May 20
8:15 a.m.–12:15 p.m.
TT-01: Andersen Corporation

12:15 p.m.–4:45 p.m.
TT-02: St. Croix Sensory, Inc. — Sensory Evaluation Center

1:45 p.m.–4:15 p.m.
TT-03: Orfield Laboratories, Inc.

Tuesday, May 21
7:15 a.m.–12:00 p.m.
TT-04: 3M Innovation Center, Customer Abrasives Methods Center, and Personal Safety Division

9:00 a.m.–1:00 p.m.
TT-05: TSI Incorporated

12:30 p.m.–3:30 p.m.
TT-07: Consolidated Precision Products

1:00 p.m.–3:30 p.m.
TT-06: City of Minneapolis, Department of Public Works, Division of Water Treatment and Distribution Services

Wednesday, May 22
1:00 p.m.–5:00 p.m.
TT-08: University of Minnesota St. Paul Campus — Bell Museum and Raptor Center

Some restrictions may apply.

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See aihce2019.org for details.