

AIHCE ^{VIRTUAL} EXP 2021

Advancing Worker Health & Safety

May 24–26

ADVANCE PROGRAM

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Opening Session

Monday, May 24

8:00 a.m.–9:30 a.m.

From Battlefield to COVID-19 Emergency Room – Leadership Under Pressure

Sudip Bose, MD

Bronze Star recipient, leading emergency physician, and nationally recognized media health correspondent

From combat medical service in Iraq to the front lines of COVID-stricken emergency rooms, Dr. Bose takes audiences through some of his most daunting experiences leading in times of crisis. As one of America's foremost doctors in mass casualties, disaster care, PTSD, and now the coronavirus pandemic, Dr. Bose passionately believes that, even in a world of doom and gloom, we can brave chaos, act confidently, and live healthfully. With inspiring optimism, Dr. Bose shares battle-proven strategies to stay grounded in the face of overwhelming circumstances, lead under pressure, and make tough decisions.

As a battalion surgeon during Operation Iraqi Freedom, Dr. Bose's service earned him the Bronze Star for the

distinction of completing one of the longest combat tours by a physician since World War II. He is also the U.S. physician who treated Saddam Hussein after U.S. forces extracted him from the spider hole.

During the Second Battle of Fallujah, he provided medical care in the streets while being protected by overhead snipers --he understands how to thrive in the extreme. Dr. Bose most recently designed a two-year emergency training program for the ER team in Odessa, Texas. Incredibly, his highly prepared team was able to put his cutting-edge principles into action following the horrific shootings there in 2019.

He characterizes his service in the Army as a humbling and transformational experience. He shares the profound impact of treating war casualties, performing life-saving procedures during raids and patrols, and offering humanitarian care in Baghdad. Dr. Bose uses his experiences in the ER and on the battlefield to help audiences understand how to lead lives of impact and service.

**Opening session
sponsored by**

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Closing Session

Wednesday, May 26

3:30 p.m.–4:45 p.m.

Workplace of the Future — New Rules for a New World

Mike Walsh

Futurist, global nomad, and leading authority on technology, transformation, and leadership — with a uniquely global perspective

Walsh will speak about how COVID-19 hastened the arrival of a radical new future of work. While for many of us, working from home has been a new and unexpected challenge, Walsh contends it is just the start of a much bigger transformation that will reshape the nature of business itself.

To survive, every organization will have to virtualize. Whether it be serving customers through digital channels or leveraging artificial intelligence (AI), algorithms, and automation to ensure business continuity -- we are likely to experience a decade's worth of change in the next 12 months. For leaders, now, more than ever, is a time to upgrade their capabilities, embrace new technologies, and reimagine what they do.

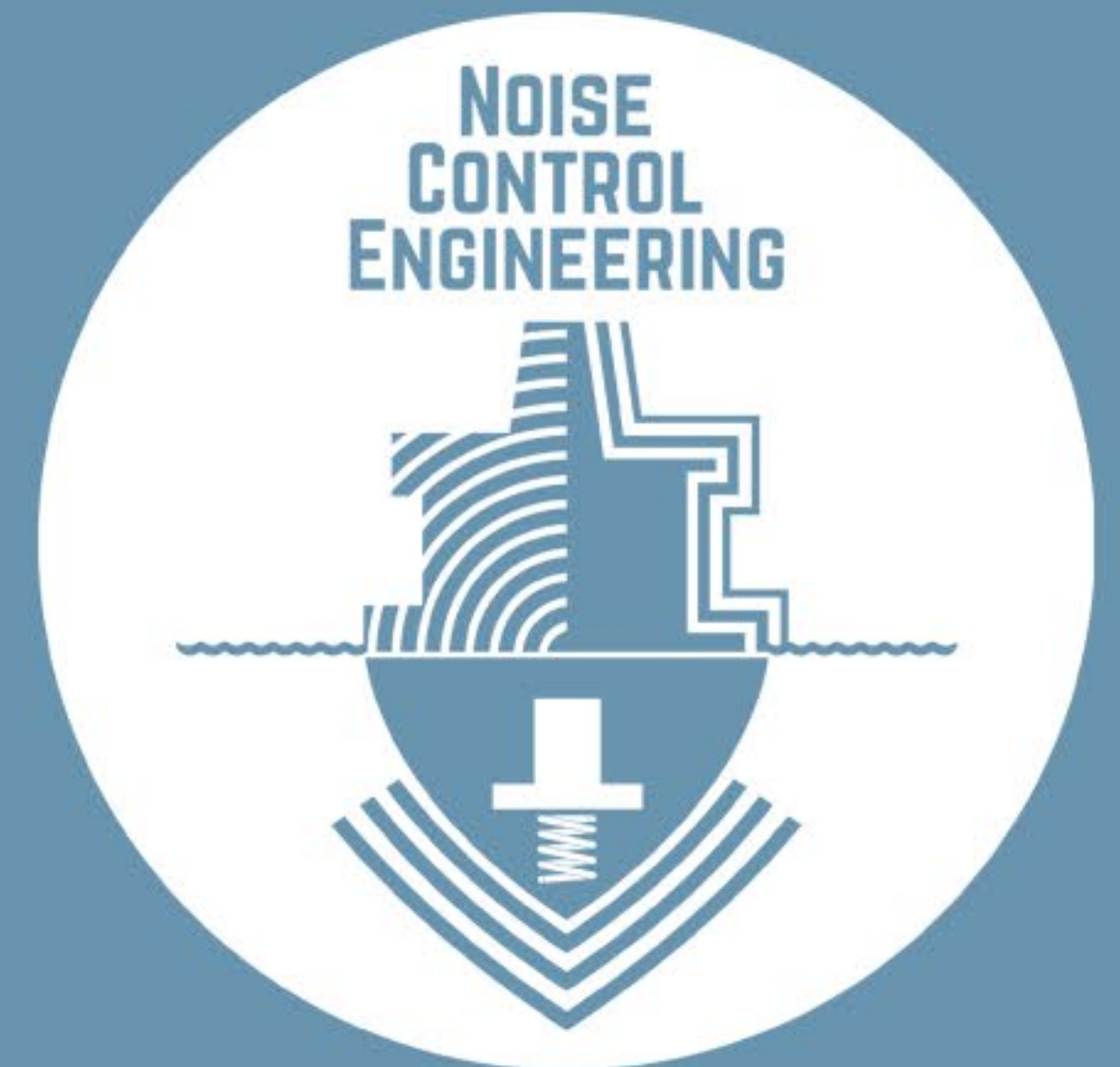
Walsh's inspiring keynote presentation will offer IH/OEHS professionals insights into the organizations and leaders that are successfully navigating this period of change and how to create a playbook for their own transformation. Becoming future-proof is more than just about getting through the current crisis --it is about being ready for the new world that awaits us on the other side.

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Pre- and Post-Conference Education

Saturday, Sunday, and Thursday, May 22, 23, and 27

AIHce EXP's professional development courses (PDCs) are in-depth, interactive, formal learning experiences designed to broaden knowledge, enhance technical competence, and provide practical tools and skills for the workplace. PDCs are held Saturday, May 22; Sunday, May 23; and Thursday, May 27 as half-, full-, and two-day courses.

Track/Topic	Saturday & Sunday, May 22-23, 8:00 a.m.–5:00 p.m.	Saturday, May 22, 8:00 a.m.–12:00 p.m.	Saturday, May 22, 8:00 a.m.–5:00 p.m.	Saturday, May 22, 1:00 p.m.–5:00 p.m.	Sunday, May 23, 8:00 a.m.–12:00 p.m.	Sunday, May 23, 8:00 a.m.–5:00 p.m.	Sunday, May 23, 1:00 p.m.–5:00 p.m.	Thursday, May 27, 8:00 a.m.–12:00 p.m.	Thursday, May 27, 8:00 a.m.–5:00 p.m.	Thursday, May 27, 1:00 p.m.–5:00 p.m.
Aerosols and Airborne Particulates		PDC 201: Aerosol Sampling Update - NEW!								
Big Data			PDC 105: Introduction to Big Data and Data Analytics - NEW!							
Biosafety/Microbiology								PDC 901: Practical Applications in Water Management - NEW!		
Changing Workplaces, Workforce, and Work Arrangements								PDC 908: The Past, Present, and Future Way We Work		
Communicating IH Concepts			PDC 101: 8 Skills for Conflict Management and Resolution - NEW!			PDC 401: How to Develop Creative Narrative for Better Training and Retention				
Confined Spaces					PDC 505: Utilizing Regulations, Standards, Guidelines, and Common Sense to Ensure Safe Entry in Confined Spaces				PDC 802: Planning for Confined Space Rescue - NEW!	
Construction			PDC 102: Identifying Exposures and Controls of Welding Fume							
Emergency Preparedness and Response							PDC 602: Mitigation Through Decontamination - NEW!			PDC 1001: Misunderstandings and Misinterpretations of the OSHA HAZWOPER Standard - NEW!

View www.aihceexp.org for full descriptions of PDCs and education sessions, along with contact hours and value adds.

Pre- and Post-Conference Education

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Ethics		PDC 202: A Study in Comparative Ethics in the Flint Water Crisis								
Exposure Banding/ OELs								PDC 902: Estimating Health-Based Limits for Data Poor Chemicals		
Hazard Recognition/ Exposure Assessment					PDC 501: Introduction to New Knowledge for Real-Time Detection Systems Equipment - NEW!	PDC 403: Identifying and Quantifying Post-Fire and Post-Urban Wildfire Hazards	PDC 604: Introduction to IH Mod 2.0 – Exposure Modeling With Monte Carlo Simulation	PDC 903: Evaluating Indoor Surface Contamination	PDC 803: Effective IH Management of Petrochemical Turnarounds and Related Projects	PDC 1002: A Comprehensive Look at IH Monitoring Equipment - NEW!
Indoor Environmental Quality/Indoor Air Quality									PDC 805: Planning for Increases in Legionellosis - NEW!	
Laboratory Health and Safety						PDC 404: Optimizing Ventilation Systems for Labs				
Management/ Leadership	PDC 701: Influencer Training® - The New Science of Leading Change - NEW!		PDC 104: Essential Leadership and Communication in EHS			PDC 405: Women in IH Leadership Summit – Managing Change and Creating a Culture of Innovation				
Nanotechnology				PDC 303: Old Theories and New Concepts in Nanotechnology			PDC 603: How to Assess and Manage Nano and Advanced Material Risks			
Noise/Hearing Loss Prevention								PDC 904: Effective Engineering Solutions for Noise Control		
Radiation (Ionizing and Nonionizing)		PDC 203: A Comprehensive Look Into Laser Accidents			PDC 504: Sources, Hazards, Evaluation, and Exposure Control Technologies of Ultraviolet Radiation - NEW!	PDC 407: Basic Radiation Calculations Boot Camp		PDC 905: The ABCs of Electromagnetic Energy - NEW!	PDC 806: Nonionizing Radiation Hazards and Protection - NEW!	
Respiratory Protection		PDC 204: Enhancing Your Respirator Fit Testing Skills - NEW!		PDC 301: Respirator Selection and Use for Biological Aerosol Exposures					PDC 807: The Fundamentals of an Effective Respiratory Protection Program	

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Risk Assessment and Management	PDC 702: Communicating Risk Pathways – From EHS Hazards Identification to Enterprise Risk Management - NEW!		PDC 106: Pesticides, Vapors, and Particulates Risk Assessment PDC 110: Strengthening Skills in Decision-Making in Managing Risk	PDC 302: Fire and Explosion Hazards in the Process Industries - NEW!		PDC 408: Understanding the Challenges of Exposure Variability in the Workplace		PDC 906: A Qualitative Risk Analysis Tool	PDC 808: Introduction to Quantitative Asbestos Risk Assessment	
Safety	PDC 703: Electrical Safe Work Practices With Application of NFPA 70E (2021 Edition)							PDC 907: The Future of Electric Arc Protection - NEW!		
Sensor Technology			PDC 107: Advanced Application of 4-Gas/PID Sensor Technology							
Standards, Regulations, and Legal Issues		PDC 206: Focus on Health and Safety - An HSE Photographic Audit for IHS	PDC 109: The Submicrogram World — The OSHA Beryllium Standard			PDC 409: Classification and Management of Hazardous Waste				
Total Exposure Health/ Total Worker Health®		PDC 205: Ethical Considerations of Wearable Sensor Data for Total Worker Health® - NEW!				PDC 410: Total Worker Health® 101 and Beyond – Workplace Solutions - NEW!				
Toxicology					PDC 503: “Fun”damentals of Industrial Toxicology - NEW!					

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Flexible Registration

Can't decide which session to attend in a time block? Can't make a session due to a schedule conflict? Can't make the conference from May 24–26 at all?

All full conference registrations include access to OnDemand recordings through December 31, 2021, so you can learn when it's convenient for you! Additional contact hours are available for most OnDemand sessions.



Group Rates

Save Big With Group Rates

Save your company up to \$100 per person when you register as a group! Group rates are available through May 14 for virtual registrations.



AIHF Virtual Fun Run May 10 – June 8, 2021

Help the American Industrial Hygiene Foundation (AIHF) raise \$20,000 in scholarships for deserving IH/OEHS students.

The AIHF Virtual Fun Run is back! Bike 10K, run 5K, or walk 2.5K to get some exercise and do some good wherever you are. Better yet, get the entire family involved. Register by April 19 to get your limited-edition commemorative t-shirt!



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Social Media

Stay Connected With #AIHceEXP



Follow us on Facebook, Twitter, LinkedIn, and YouTube for the latest AIHce EXP updates!

Health and Wellness Activities

Nourish your mind, body, and soul with sessions designed to build you up from the inside out:



Monday, May 24 through Wednesday, May 26

Health and Wellness Pop-Ups

Monday, May 10 to Tuesday, June 8

AIHF Virtual Fun Run/Walk/Ride

First-Time Attendees

Make the most of your first AIHce EXP Experience:



First Timers Webinar in May

We'll walk you through what to expect, what to prepare and pack, how to select sessions appropriate for your goals, and more. *Sponsored by* **DUPONT**

First Timers Meet and Greet on Monday, May 24 at 6:30 a.m.

Here you will meet other first timers with whom you can network, partner up with for sessions, and share knowledge. *Sponsored by* **DUPONT**

Navigate with a PAL

The Personal AIHce EXP Liaison (PAL) Program matches first timers with experienced AIHce EXP attendees. What could be better than a friendly face, introductions, and recommendations from someone EXPerienced? Request a PAL during registration.

Students, Early Career Professionals, and First Timers

NEW in 2021! AIHce EXP is proud to introduce The Nexus, a lounge specifically designed for you to network, recharge, learn, and relax! You'll also be treated to a special "Lessons in Leadership" series of meet and greets with our two keynote presenters, Mark of Excellence Award winners, and other IH/OEHS luminaries. The Nexus will be open Monday through Wednesday during specific times noted in the program.



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Education Sessions

Monday, May 24

5:30 p.m.–6:30 p.m.
Sunset Session
Increasing Risk Awareness and Leveraging Risk Management to Catalyze a Culture of Learning and Health

Track/Topic	Monday, May 24 10:00 a.m.–11:00 a.m.	Monday, May 24 11:15 a.m.–12:15 p.m.	Monday, May 24 2:00 p.m.–3:00 p.m.	Monday, May 24 3:15 p.m.–4:15 p.m.
Aerosols and Airborne Particulates	A1: Research Roundup Aerosols 1			
Biosafety/Microbiology		B4: The Chicken or the Egg of <i>Legionella</i> and Public Water Supplies		
Chemical Hazards		B2: Research Roundup Chemical Hazards 1		
Communicating IH Concepts				D4: Focus on Soft Skills for Improved Collaboration and Communication
Confined Spaces			C4: The Navy's Safety Process for Entering Challenging Confined Spaces on Ships and in Shipyards	
Construction		B1: Research Roundup Construction 1		
Emergency Preparedness and Response	A6: COVID-19 Response — Inventing a New Science	B5: Lessons Learned From 9/11/2001 — 20th Anniversary Review		
Ergonomics	A2: Research Roundup Ergonomics			
Exposure Banding/OELs				D9: OELs and Their Relationship to Limits for the General Public
Hazard Recognition/Exposure Assessment		B6: Prevention Through Design — An Integrated Approach to Hazard Analysis		D2: Research Roundup Hazard Recognition and Exposure Assessment 1 D6: Interesting and Unusual NIOSH Health Hazard Evaluations
Laboratory Health and Safety			C6: Laboratory Best Practices	
Management/Leadership	A8: Ask the Expert With Dr. Sudip Bose		C5: Powerful Leadership Skills That Often Get Overlooked	
Noise/Hearing Loss Prevention	A4: HearWell — A Participatory Approach to Hearing Protection Use and Training			
Protective Clothing and Equipment				D1: Research Roundup Protective Clothing and Equipment 1
Respiratory Protection		B8: Effect of Extended Use/Reuse of Masks and Filtering Facepiece Respirators on Fit and Filtration Efficiency		
Risk Assessment and Management	A5: Semi-Quantitative Risk Analysis to Derive Controls Using Layer of Protection Analysis (LOPA)	B9V: Getting the Right Data in Dust Explosion Testing		
Safety			C2: Research Roundup Safety 1	
Sampling and Analysis			C1: Research Roundup Sampling and Analysis 1	
Sensor Technology	A3: The Challenges of Using Real-Time Detection Systems, Part 1 — Data Gathering to Actionable Information	B3: The Challenges of Using Real-Time Detection Systems, Part 2 — Case Studies in Real-Time Detection Measurements	C3: The Challenges of Using Real-Time Detection Systems, Part 3 — Case Studies of Continuous Hazard Monitoring Network Deployment and Interpretation	D3: The Challenges of Using Real-Time Detection Systems, Part 4 — Implications for Real-Time Sensors Deployment Toward Big Data
Social Concerns				D8: Upton Sinclair Memorial Lecture — How Pork Plant Execs Sacrificed Safety for Profits
Standards, Regulations, and Legal Issues			C8: The Crossroads of Science and Regulations in Glyphosate and Cancer	
Total Exposure Health/Total Worker Health®	A7: Embracing the "Totals Principles" Worldwide — TWH, TWE, TEH	B7: Leading Health Metrics	C7: A Total Worker Health® Approach to Address Emerging OSH Needs in a Changing Workforce	D7: Case Studies in Participatory Action Research and Its Role in Total Worker Health

Education Sessions

Tuesday, May 25

Track/Topic	Tuesday, May 25 8:00 a.m.–9:00 a.m.	Tuesday, May 25 10:00 a.m.–11:00 a.m.	Tuesday, May 25 11:15 a.m.–12:15 p.m.	Tuesday, May 25 2:00 p.m.–3:00 p.m.	Tuesday, May 25 3:15 p.m.–4:15 p.m.	Tuesday, May 25 4:30 p.m.–5:30 p.m.
Academic Track	E9: Connecting Students and Career Professionals, Part 1	F9: Connecting Students and Career Professionals, Part 2	G9: Perspectives on Preparation for the CIH Exam — Version 15.0	H9: Academic Track, Student Presentations	I9: Academic Track, Student Presentations	J9: Academic Track, Student Presentations
Aerosols and Airborne Particulates				H1: Research Roundup Aerosols 2		
Big Data	E1: Research Roundup Big Data				I3: All About Leading, Lagging, and Predictive Indicators	
Changing Workplaces, Workforce, and Work Arrangements			G5: Changing the Paradigm of the Modern Day IH/OS Professional	H7: Changing the World One OHTA Course at a Time		J8: Leveraging Partnerships, Growing Local Grassroots Talent, and Delivering Results in Global OEHS Initiatives
Chemical Hazards			G2: Research Roundup Chemical Hazards 2			
Communicating IH Concepts			G4: How to Develop Creative Narrative for Better Training and Retention			
Confined Spaces	E6: Notable Confined Spaces — Solvent Evaporation in an Isolated Subsurface Structure and a Fatal Case of Soil Gas Migration Into a Sampling Shed					J6: How ANSI Standards Z117.1 and Z390.1 May Impact Your Confined Space Program
Emergency Preparedness and Response		F8: NIOSH's Response to COVID-19, Part 1	G8: NIOSH's Response to COVID-19, Part 2 G1: Research Roundup Emergency Preparedness and Response 1		I4: Wisconsin's Use of UVGI for Decontamination of PPE During the COVID-19 Pandemic	
Ergonomics		F3: Fighting the Risk of Worker Fatigue in a 24/7 Workplace		H3: Comparisons of Exoskeleton Electromyography (EMG) Data to ACGIH Threshold Limit Values (TLVs)		J3: Whole-Body Vibration Exposure Onboard Coast Guard Small Boats
Ethics	E5: Ethics in Risk Management, Part 1	F5: Ethics in Risk Management, Part 2				
Hazard Recognition/Exposure Assessment		F6: Comprehensive Exposure Assessments at the Hanford Site		H6: Interesting OSHA Health Cases — Facts From the Field, Part 1	I6: Interesting OSHA Health Cases — Facts From the Field, Part 2	J1: Research Roundup Hazard Recognition and Exposure Assessment 2
Healthcare				H4: Implementation, Controls, and Outcomes of COVID-Free Protection Zone Model		
Indoor Environmental Quality/Indoor Air Quality	E2: Research Roundup Indoor Environmental Quality 1					
Laboratory Health and Safety			G7: Building an Efficient and Sustainable In-House Software for OSHA Chemical Hygiene Plan (CHP) Compliance and Beyond			
Management/Leadership				H5: Why We Can, Must, and Will Become Better Leaders	I2: Research Roundup Management and Leadership	J5: Showing the Value of Industrial Hygiene Through Operational Risk Communication

View www.aihceexp.org for full descriptions of PDCs and education sessions, along with contact hours and value adds.

Education Sessions

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Noise/Hearing Loss Prevention	E4: Effective Practices in Hearing Loss Prevention	F1: Research Roundup Noise 1		H2: Research Roundup Noise 2		J2: Advanced Hearing Conservation in Construction During Pandemics and Beyond
Protective Clothing and Equipment						J7: Comparison of Filtration Efficiencies of N95s and KN95s During the COVID-19 Pandemic
Respiratory Protection	E8: A New Approach to Real-Time Respiratory Protection Assessment in the Workplace	F2: Research Roundup Respiratory Protection 1				
Risk Assessment and Management						J4: Mesothelioma in Taconite Ore Miners
Safety	E3: Hazards of New Energy Storage/Super Battery Storage		G6: Improving Hazard Identification		I5: Is Your Safety Training Good Enough?	
Sampling and Analysis		F4: How to Collect Viable <i>Clostridioides difficile</i> Endospore Aerosol Using Impingers			I1: Research Roundup Sampling and Analysis 2	
Sensor Technology			G3: A Comprehensive Review of Ethics, Acceptability, and Data of Wearable Sensors			
Social Concerns				H8: Movie Matinee, Part 1 — Waging Change (Film Viewing)	I8: Movie Matinee, Part 2 — Waging Change (Film Discussion)	
Total Exposure Health/Total Worker Health®	E7: OHS Strategies to Address COVID-19 Impacts in Minority Communities	F7: Total Worker Health in Construction				

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Education Sessions

Wednesday, May 26

Track/Topic	Wednesday, May 26 8:00 a.m.-9:00 a.m.	Wednesday, May 26 9:15 a.m.-10:15 a.m.	Wednesday, May 26 10:30 a.m.-11:30 a.m.	Wednesday, May 26 1:00 p.m.-2:00 p.m.	Wednesday, May 26 2:15 p.m.-3:15 p.m.
Biosafety/Microbiology				N7: The Permitting Process of Drinking Water Supplemental Disinfection Systems for Waterborne Pathogen Control and Prevention	
Changing Workplaces, Workforce, and Work Arrangements			M8: How OEHS Professionals Can Influence the Changing Workforce of the Future Workplace	N8: Impact of COVID-19 on Work Transformation — Benefits and Challenges of Modifying the Workplace to Match Remote Work of the Future, Part 1	O8: Impact of COVID-19 on Work Transformation — Benefits and Challenges of Modifying the Workplace to Match Remote Work of the Future, Part 2
Chemical Hazards					O1: Research Roundup Chemical Hazards 2
Communicating IH Concepts			M4: Teaching Occupational Safety Through Slime		
Confined Spaces		L3: Confined Space Challenges in the Wind Turbine Industry	M6: Notable Confined Spaces — Controlling Painting Hazards		O9: Lessons Learned From Fatality Assessment and Control Evaluations (FACE) Investigations in Michigan
Construction				N3: Exposures, Toxicity, and Hazard Communication of Nanomaterials in Construction	
Emergency Preparedness and Response	K9: Key Topics in Addressing the COVID-19 Pandemic, Part 1: The Varied International Experience	L9: Key Topics in Addressing the COVID-19 Pandemic, Part 2: Scientific Issues and the Hierarchy of Controls	M9: Key Topics in Addressing the COVID-19 Pandemic, Part 3: Preventing SARS CoV-2 Among Essential Workers	N5: Cultural Heritage Emergency Response Training	O7: U.S. Army Corps of Engineers' Alternate Care Facilities COVID-19 Response
Ergonomics					O3: The Impact of Workplace Musculoskeletal Disorders on the Opioid Crisis
Exposure Banding/OELs	K1: Research Roundup Exposure Banding/OELs				
Hazard Recognition/Exposure Assessment	K5: Conducting Retrospective Exposure Profiling and the Role of the OH in Disease Claims for Workers' Compensation				O6: Protecting Workers' Reproductive and Developmental Health
Healthcare		L1: Research Roundup Healthcare			
Indoor Environmental Quality/Indoor Air Quality			M5: Evaluating Ventilation, Airflow, and Filtration in the Built Environment During the COVID-19 Pandemic	N1: Research Roundup Indoor Environmental Quality 2	
Laboratory Health and Safety	K8: Laboratory Special Session, Part 1	L8: Laboratory Special Session, Part 2	M7: Role of the Safety, Health, and Environmental (SHE) Professional During Major Site Relocation		
Management/Leadership		L6: IHs — The Greatest Salespeople in the World			
Nanotechnology	K2: Modeling Exposure and Risks in Emissions of 3D Printer Nanoparticles				
Protective Clothing and Equipment	K7: Challenges and Solutions for Flame Resistant (FR) Clothing Hazard Assessment and Selection, Part 1	L7: Challenges and Solutions for Flame Resistant (FR) Clothing Hazard Assessment and Selection, Part 2			
Respiratory Protection	K6: Respirator Fit Testing With Controlled Negative Pressure		M1: Research Roundup Respiratory Protection 2		

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Education Sessions

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Risk Assessment and Management				N4: An Evaluation of Ventilation Engineering Controls and Surface Cleaning Techniques on COVID-19 Risk Reduction Measures	
Safety		L4: The Role of the OHS Professional in TV, Film, and News Productions		N6: Protecting Employees Against Natural Hazards	O4: Is Green Energy the New Safe Energy? O5: Data Management Best Practices
Sampling and Analysis	K3: Sampling for SARS-CoV-2 and Deactivation of Aerosol Via 254 nm UVC	L2: X Rapid — AI for IH Analysis			O2: Increasing the Usefulness of OSHA Sampling and Analysis Methods for Field Hygienists
Sensor Technology			M2: Sources of Error and Variability in Particulate Matter Sensor Network Measurements	N2: Capabilities and Limitations of the Latest LEL Sensors in Combustible Gas Measurement	
Standards, Regulations, and Legal Issues	K4: Emerging Issues and Impacts in Beryllium Regulations	L5: Involving IHs in Consensus Standards in Pandemic Response			

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- 5 **Polymers**
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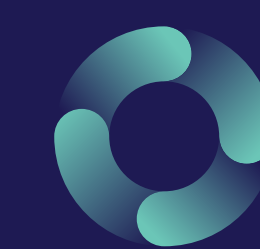
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