



HEALTHIER WORKPLACES | A HEALTHIER WORLD

AIHA NATIONAL UPDATE

YPSW 48th Annual Meeting

January 20, 2023

Presented by:

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Chief Executive Officer

AIHA STRATEGIC PLAN (2022-24)

- **Mission** - Empowering and advancing those who apply scientific knowledge to protect all workers and their communities from occupational and environmental hazards
- **Vision** – A world where all workers and their communities are healthy and safe

AIHA DIFFERENTIATORS

UNIQUE VALUE PROPOSITION:

AIHA members are scientists and occupational and environmental health and safety (OEHS) professionals who protect the health and safety of workers and communities by reducing risks and safeguarding operations to help organizations operate efficiently and without interruption.

HOW AIHA UNIQUELY SUPPORTS THE OEHS PROFESSION (“DIFFERENTIATORS”)

- **Advocacy:** We safeguard our profession’s interests across a broad range of issues, including natural disasters, workforce development, Certified Industrial Hygiene (CIH) title protection, indoor environmental quality, and more — at all levels of government.
- **Public Awareness of the Profession:** We develop timely, consumer-friendly resources that help educate and support the needs of workers and the general public.
- **Lab Accreditation and Proficiency Testing:** AIHA’s Lab Accreditation and Proficiency Analytical Testing programs support the competency and global recognition of labs — critical to the integrity of OEHS and allied professional practice.
- **Community-based Exposure Limits:** AIHA’s Emergency Response Planning Guidelines protect communities dealing with exposure to hazardous chemicals caused by man-made or natural disasters.

HOW AIHA UNIQUELY SUPPORTS OEHS PROFESSIONALS (“DIFFERENTIATORS”)

- **Premier Provider of Applied Scientific Education:** We develop and maintain an extensive library of educational offerings, technical resources (including Body of Knowledge frameworks), e-tools, and publications in the applied science of occupational and environmental health and safety.
- **Career Development:** We offer financial support to students and provide professional development resources to help students and those entering the profession mid-career. AIHA Local Sections foster a sense of community and creation of professional development networks, as well as leadership opportunities.
- **Processes and e-Tools to Ensure High Quality Exposure Risk Decisions.** AIHA has developed a proven methodology and suite of e-tools to ensure high-quality exposure modeling, dermal exposure assessment, qualitative judgment accuracy, and the statistical analysis of quantitative exposure data.

HOW AIHA UNIQUELY SUPPORTS OEHS PROFESSIONALS (“DIFFERENTIATORS”)

- **Foresight Leadership:** We scan the environment for emerging topics and trends and develop strategic, educational, and informational resources to enlighten and inform OEHS professionals about these future opportunities and threats that may impact the profession.
- **OEHS Professional Credentialing:** Our Registry Programs recognize best-in-class asbestos analysts, safety data sheet authors, and exposure decision analysts.
- **Product Stewardship Society:** We serve as the association management company for a distinct society of professionals responsible for reducing the environmental life-cycle impacts of products.
- **Global Outreach:** We offer training, resources, and financial support to OEHS students and professionals living in emerging economies.

DOMAINS/SUCCESS STATEMENTS

COMMUNITY

AIHA will nurture and empower a diverse and inclusive professional community and engage with allied professional organizations to work towards achieving common goals.

AWARENESS

AIHA will promote the practice of OEHS by increasing awareness of the value of the profession and growing the organization.

ADVANCEMENT & DISSEMINATION OF KNOWLEDGE

AIHA will explore, develop, and disseminate cutting-edge educational, technical, and career enrichment resources to advance the OEHS profession and professionals.

INTEGRITY OF PROFESSIONAL PRACTICE

AIHA will identify, develop, continuously improve, and promote excellence in OEHS practices.

ADVOCACY

AIHA will influence the actions of the public, government, and organizations to advance worker and community health and safety.

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Vision – A world where all workers and their communities are healthy and safe

Value Proposition - AIHA members are scientists and professionals who protect the health and safety of workers and communities by reducing risks and safeguarding operations to help organizations operate efficiently and without interruption.

Domains				
Community	Awareness	Advancement and Dissemination of Knowledge	Integrity of Professional Practice	Advocacy
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Strategic Objectives				
<ol style="list-style-type: none"> 1. Enhance AIHA's value proposition to attract, grow, and retain a diverse and inclusive community of OEHS professionals as members. 2. Enhance AIHA's value proposition to appeal to non-core OEHS and allied professionals. 3. Enhance Product Stewardship Society's value proposition to attract, grow, and retain a community of diverse product stewards as members. 4. Identify and nurture relationships with allied professional organizations. 	<ol style="list-style-type: none"> 1. As the AIHA association, communicate our mission, vision, values, and value proposition to increase the strength of the organization. 2. As a profession, inform organizational leaders of the value proposition of OEHS professionals: who we are, what we do, and why. 3. As a profession, broadly communicate to the public AIHA's mission, vision, and value proposition to improve society. 	<ol style="list-style-type: none"> 1. Identify the needs associated with critical issues in OEHS, create the research agenda, and facilitate information sharing, partnerships, dissemination, and implementation of evidence-based practices. 2. Develop educational, technical, and career resources for targeted audiences. 3. Disseminate educational, technical, and career resources to targeted audiences in developed and emerging economies through multiple delivery options. 	<ol style="list-style-type: none"> 1. Implement a continuous improvement strategy to identify and address gaps between current and state-of-the-art (best in class) OEHS practice. 2. Advance competency in specialty areas through laboratory accreditation, proficiency programs., and registry programs. 3. Develop recognized leading metrics and best practices for worker and community health and safety, including organizational social responsibility. 	<ol style="list-style-type: none"> 1. As thought leaders, build awareness of the OEHS profession and the value of the professionals' impact on businesses and communities to influence stakeholders, the public, and policymakers at all levels of government. 2. Empower AIHA members and the public to contact their policymakers in support of AIHA public policy positions and issues.

CURRENT CONTENT PRIORITIES

Domain **Knowledge**, SO #2: Develop educational, technical, and career resources for targeted audiences.

Big Data and Sensor Technology



Total Worker Health®

Serving the Changing Workforce

Communicating OEHS Concepts

Total Worker Health® is a registered trademark of the U.S. Department of Health and Human Services (HHS). Participation by AIHA does not imply endorsement by HHS, the Centers for Disease Control and Prevention, or the National Institute of Occupational Safety and Health.



Resources for Academics

Here you'll find a variety of FREE educational materials that are designed to be used by academic faculty to enhance their OEHs curricula. In addition, some materials as noted may be appropriate for independent self-study.

Public Resources AIHA Academic Portal

Public Resources

Apps and eTools Resource Center

Center for Safety & Health Sustainability

Consultants Listing +

Consumer Resources +

Government Relations & Advocacy

Marketplace

OEHs Professionals Resources

Safety Matters Center

AIHA is pleased to provide access to free resources on the following topics that can be incorporated as additional resources alongside your formal academic program curricula. These topics are designed to enhance the student learning experience and help them be better-prepared professionals as they embark on their careers in occupational and environmental health and safety.



Improving Exposure Judgment

An introduction to IH statistics

[TAKE A LOOK](#)



Occupational Exposure Banding

Understanding OEBs and their use

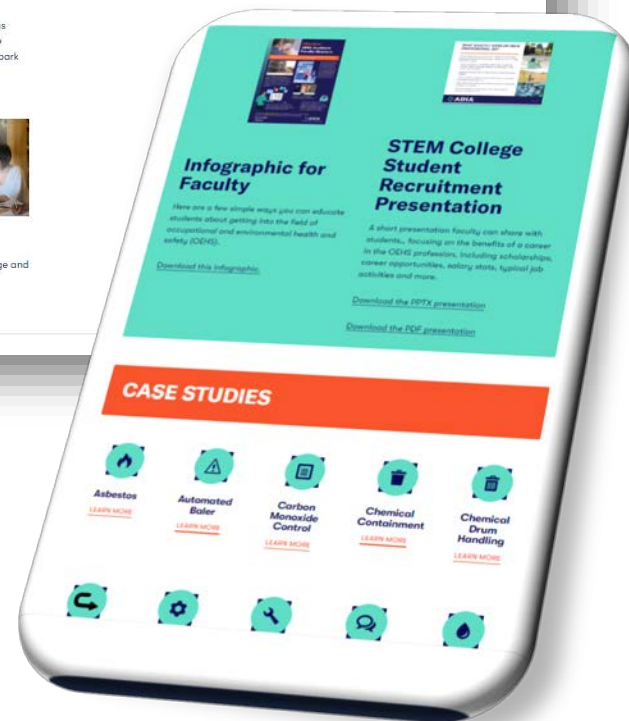
[LEARN MORE](#)



Frameworks

Guides to topical knowledge and skills

[LEARN MORE](#)



NEW Academic Portal

"ADVANCING OEHS SCIENCE & PRACTICE" INITIATIVES

Initiative	Definition
Defining the Science Domain: Knowledge SO #1	Seeks to advance our science to improve the ability of practitioners to protect workers and communities.
Standards of Care Domain: Integrity of Prof Practice SO #1	Defines minimum practice performance expectations for ensuring acceptable worker protection.
State of the Art vs. Practice Domain: Integrity of Prof Practice SO #1	Implements a continuous improvement strategy to close gaps between current practice and the state-of-the-art and minimum standards of care.
Improving Exposure Judgements Domain: Integrity of Prof Practice SO #1	Accelerates adoption of the use of IH statistical and other tools to improve the accuracy of worker exposure assessments.

DOMAIN: ADVANCEMENT/DISSEMINATION OF KNOWLEDGE DEFINING THE SCIENCE (DTS)

- Initiated in late 2020 as a collaborative initiative with ACGIH
- Managed by DTS Advisory Group
- Identify research needed to advance OEHS science to address gaps in effective and efficient practice and identify areas where current practice has not kept up with risk-critical scientific findings
- Improve practitioner performance through advocacy for new science, and focused outreach, promotion, and training to facilitate the implementation of current science.
- New Research & Development (R&D) officer position created to engage and leverage the expertise of our volunteer groups in support of this initiative (“barriers to practice”)

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DOMAIN: INTEGRITY OF PROFESSIONAL PRACTICE

STANDARDS OF CARE



- Initiated in 2022, managed by a SOC Advisory Group
- Aims to document a concise, easy-to-use summary of the minimum recommended global standards of care for the professional practice of OEHS that incorporate best risk management practices whenever feasible.
- Standards of Care are defined as “practical, proven, and available practices that provide robust and reliable performance to effectively protect workers and communities from unacceptable risks”.
- They differ from competencies, which pertain to what we know (e.g., CIH rubrics), to focus on the performance of what we do.
- For example, one can think of a standard of care that recommends control strategies that go beyond regulatory requirements to meet an OSHA PEL; instead, it aims higher to increase worker risk protection afforded by using the lower of an ACGIH TLV or PEL.

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DOMAIN: INTEGRITY OF PROFESSIONAL PRACTICE

STATE OF THE ART V PRACTICE

- Will define and implement a continuous improvement strategy that identifies and addresses gaps between current and state-of-the-art OEHS practices.
- Builds upon the Standards of Care initiative to understand and address barriers preventing state-of-the-art or minimum standards of care practices, thereby empowering practitioners to achieve best-in-class performance.
- AIHA's Noise Committee is serving as a beta test group for this effort under the domain of "hearing loss prevention".
- A new member survey launches in early 2023 to define and address gaps between current and state-of-the-art practices.

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DOMAIN: INTEGRITY OF PROFESSIONAL PRACTICE IMPROVING EXPOSURE JUDGMENTS (IEJ)

- Initiated in 2022, another collaborative initiative with ACGIH
- Managed by an IEJ Advisory Group
- Aims to drive a significant shift in OEHS practice from one where tools and activities that improve exposure judgment accuracy are rarely or sporadically used, to one where their use is routine and expected
- Goal: Increased use of AIHA's suite of tools for improving exposure decisions, such as the Checklist Tool and IHMOD2.0 for qualitative judgments, and statistical tools, such as IHSTAT or the Bayesian decision analysis tool IHDA-AIHA, for accurately interpreting monitoring data

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EXPOSURE DECISION ASSESSMENT

Related to the IEJ Initiative, the goal of this program is to improve the accuracy and efficiency of exposure assessment decisions that can be made when using statistical analysis tools.

- Lists you alongside individuals recognized for ongoing personnel training, quality assurance, and demonstration of competency in rendering exposure decisions
- Improves the overall quality of your management of workplace exposures
- Encourages a platform of continuous improvement, essential to collaboration and sharing of best practices
- **New online prep course, *Making Accurate Exposure Risk Decisions***, aligned to the EDA exam
- Best of all, both the prep course and exam are **FREE!**



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NEW THERMAL STRESS WORKING GROUP

- Open to members and non-members
- Purpose: To develop new tools and educational materials for thermal stress, with a focus on occupational heat exposure.
- Project ideas:
 - Updating OSHA-NIOSH heat safety app (e.g., WBGT-based risk tool), a top priority for on-the-job heat stress
 - A study evaluating the current implementation of heat safety practices across North American (U.S. & Canada) businesses, identifying current knowledge, attitudes, and behaviors related to occupational heat stress among workers
 - Creating an effective educational program based on needs assessment outcomes

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IMPROVING CLINICAL AND PUBLIC HEALTH OUTCOMES THROUGH NATIONAL PARTNERSHIPS TO PREVENT AND CONTROL EMERGING AND RE-EMERGING INFECTIOUS DISEASE THREATS: CDC-RFA-CK20-2003 (YEAR 1)

Project 1

- Revision of AIHA's "*Role of the Industrial Hygienist in a Pandemic*"
- *COVID Exposure Assessment Tool*
- Supplemental videos addressing need for OEHS professionals (small businesses, healthcare, long-term care facilities)
- Knowledge products addressing risk assessment and ventilation / web-based risk assessment tool

Project 2

- Animated video snippets on respiratory protection
 - Risk assessment
 - Face coverings for low risk
 - Respirators for high risk
- Small businesses, healthcare, long-term care
- Available in multiple languages

Project 3

- Derivative products based on AIHA's Back to Work Safely™ guides: Animated video snippets and tools
 - Service sector
 - Manufacturing sector
 - General offices
- Available in multiple languages

Project 4

- Virtual Summit (held January 2022) to address needs of vulnerable occupations; 4 panels (recorded)
 - First responders
 - K-12, Colleges
 - Gig economy
 - Construction & Agriculture

Each project includes a comprehensive communications plan with engagement metrics

IMPROVING CLINICAL AND PUBLIC HEALTH OUTCOMES THROUGH NATIONAL PARTNERSHIPS TO PREVENT AND CONTROL EMERGING AND RE-EMERGING INFECTIOUS DISEASE THREATS: CDC-RFA-CK20-2003 (YEARS 2 AND 3)

Project 5

Develop 3 different knowledge products in the form of checklists, guidance documents, and animated videos for each of these in English and Spanish only:

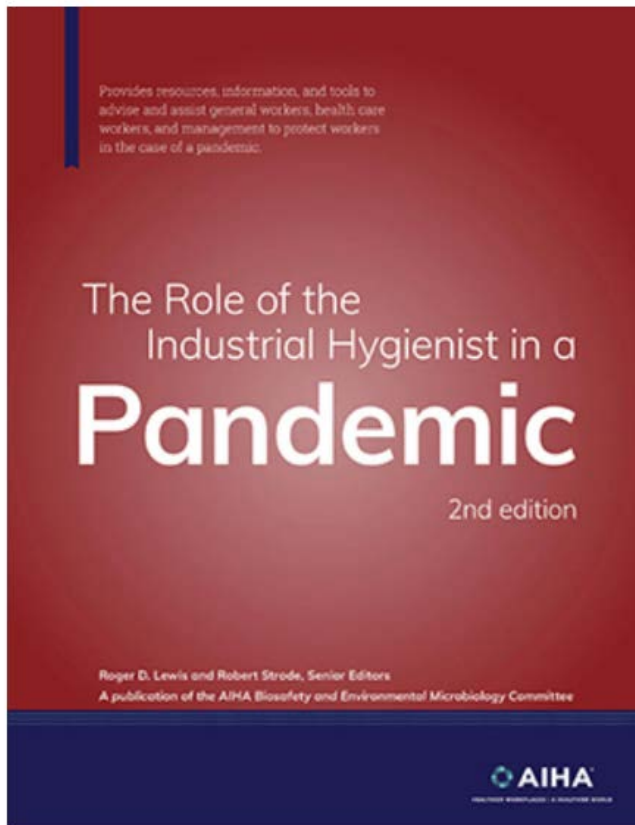
- Vaccines and Employee Testing Protocols
- In-Room Air Cleaners
- Germicidal U.V. Technology

Project 6

Develop a new e-book based on our Back to Safety Guidance documents, updated to reflect recommendations to protect workers from any airborne transmitted disease.

Each project includes a comprehensive communications plan with engagement metrics

PROJECT #1: RESOURCES FOR IH/OEHS PROFESSIONALS



- [English version](#)
- [Spanish version](#)

COVID Exposure Assessment Tool (CEAT) *Soon to be published in Science Advances journal

Step 1: Enter information that describes the Group.

Step 2: Enter the duration that most closely matches activity.

Step 3: Enter the location of the activity.

Step 4: Enter the date of the activity.

Step 5: Enter the name of the activity.

Signature

CEAT COVID-19 Exposure Assessment Tool

© Gateway 100
29 August 2021 9:30 AM EDT

Report CEAT must be reported with Action Checklist or Action Reader to AIHA.

Calculator Adjustment to Local Community's Current Conditions

Relative Exposure Factors and user and field contributions

Ratio of Exposure to the Baseline Exposure Statement

Best Viewed With Adobe Acrobat Reader

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ALL PROJECTS (#1 - #6) RESOURCES FOR SMALL BUSINESSES & CONSUMERS

JOIN US AS WE COMMIT TO

CARE

- Debunk myths about the spread of airborne viruses, such as COVID-19.
- Make the complexities of the science easier to understand through various engaging multimedia tools.
- Encourage businesses to pledge their commitment to C.A.R.E. for the health and well-being of their employees, clients, and customers.



www.commit2CARE.org

SUMMARY OF DELIVERABLES TO DATE

Knowledge Product Development

- 20 Micro-training Animated Videos targeting Small Businesses, Education, and Healthcare
- Supporting Worksheets, Tip Sheets, Infographics, Etc.
- Accessibility: Color Blind, Closed Captioning, Translations into 8 Languages
- Needs Assessment Summit (broadcast Jan 2022)

Knowledge Product Dissemination

- 4-Step Online Interactive Risk Assessment Tool
- **Commit to CARE** Pledge: Association Outreach for Endorsement and Distribution
- Multiple Month Communications and Outreach Program
- **NEW: Reimagined Commit2CARE.org as not only a place for businesses to pledge but also as a one-stop-shop for how to mitigate infectious diseases in the workplace. IN ENGLISH AND SPANISH**



www.commit2care.org/

Together, we can make our workplaces and communities safer from infectious diseases

Knowledge is power. Get informed, take control, and commit to doing more to protect your co-workers, families, and friends from the infectious diseases of today and tomorrow.



GRAND CHALLENGES FOR WORKER HEALTH AND WELL-BEING

- **Aspirational** -- they are big, important, and compelling initiatives geared to solving critical world needs
- **Solvable** -- they can be completely or largely solved, with expected progress in 5-10 years
- **Measurable** -- they should have one or more defined, measurable outcomes to gauge progress and completion
- **Collaborative** -- they require interdisciplinary collaboration
- **Inspirational** -- they require long-term sustained commitments and significant innovations in science and/or practice

ANNOUNCING: AIHA GRAND CHALLENGES

Eliminate preventable workplace illness, death, and disability:

1. Improving Exposure Assessment in the Workplace
2. Improving Equity in Workplaces, Minimizing Precarious Work Situations, and Protecting Vulnerable Workers (e.g., gig workers, undocumented persons, migrant labor)
3. Addressing the Impacts of a Changing Work Environment (e.g., remote work)
4. Mitigating the Impacts of Climate Change on Workers (e.g., heat stress)

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Get more Information at aiha.org



Join the discussion with other like-minded professionals



Check out great offers and product specials.

THANK YOU!

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