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Meeting Review—February 25, 2016 President's Luncheon

National AIHA President, Dan Anna, Ph.D., CIH, CSP was our speaker again this year for our annual luncheon. Dan provided a presentation on the AIHA Strategic Plan as a follow-up to our discussion at last year's President's Luncheon. The presentation is available on our website.

Thank you to the following members/guests that attended. Also, special thank you to Herb Layman of US Micro-Solutions for sponsoring the drink ticket.

- Lucinette Alvarado, Covestro LLC
- Dan Anna, Johns Hopkins University
- Donna Bartlett, PPG Industries, Inc.
- George Bender, GHB Consulting Services, LLC
- Dan Davis, Skelly and Loy, Inc.
- Carol Delfino, SE Technologies, LLC
- Matt Dennis, Premier Safety & Service, Inc.
- David Ercole, BELFOR Property Restoration
- Doug Finke, Professional Service Industries, Inc.
- Dan Flanagan, Port Authority of Allegheny County
- David Hanshew, Instrumentation Systems, Inc.

- Robert Judy, Premier Safety & Service, Inc.
- Debbie Kelley, BELFOR Property Restoration
- Maureen Kelly, EMSL Analytical, Inc.
- Dennis Kelly, Sunoco Logistics Partners LP
- Christy Kirsch, SE Technologies, LLC
- Mike Kopar, Professional Service Industries, Inc.
- Stanford Liang, AM Health and Safety
- Jason McCabe, Skelly and Loy, Inc.
- Mike McCaffrey
- Mike McElhinny, Colden Corp.
- Steve McGough, Premier Safety & Service, Inc.
- Barry Momyer, AM Health and Safety
- Will Nicastro, Professional Service Industries, Inc.
- Frank Pokrywka, University of Pittsburgh
- Benard Quinn, AM Health & Safety
- Keith Rickabaugh, RJ Lee Group
- Robert Rinto, FedEx Ground
- Steve Stockton
- Paula Sweitzer, Duquesne University
- Dieter Weyel, Occupational Health Consultants, Inc.
- Matt Zock, FedEx Ground

Pittsburgh AIHA Election Results

Congratulations to our newly-elected Executive Committee Members:

President-Elect:

Matt Zock, MS, CIH (FedEx Ground)

Treasurer:

Maureen Kelly (EMSL, Analytical)

Director:

Keith Rickabaugh, CIH (RJ Lee Group)

They will officially take office this summer as of the July 2016 Business Meeting (date TBA). Thank you to these members, as well as the current Executive Committee Members who have volunteered their time and energy working with the Pittsburgh AIHA.

Job Opportunity

Radiation Protection Program Manager-
Westinghouse Electric Corporation.



Westinghouse currently has an exciting opportunity for a Radiological Protection Program Manager in their Safety & Industrial Hygiene group in the Quality, Environmental, Health & Safety department at their global headquarters in Cranberry Township, PA.

View the job posting online - [CLICK HERE for more information.](#)





Happenings on the Hill

A publication from AIHA Government Relations

AIHA Government Affairs—Aaron K. Trippler, Director
atrippler@AIHA.org

Headlines in Aaron's latest report (February 4, 2016) include:

President Proposes Budget Increase for OSHA and MSHA – Decrease for NIOSH

OSHA Announces Final Silica Rule

Other OSHA Activity

- Beryllium
- Safety and Health Program Management Guidelines
- Guidance on Data Evaluation for Weight of Evidence Determination

- Eye and Face Protection
- EPA-OSA Prosecution Update

Congressional Activity

- Safe Patient Handling
- "Midnight" Rules Bill
- Interesting Bill - HR 4768
- TSCA Reform

NIOSH Activity Update

The full report is available to view / download [CLICK HERE to view the full report.](#)



Meeting Review - March 2016 Safety, Health and Wellness in Transportation - A Discussion of Current Research and Practice

On Wednesday March 30, 2016, the Pittsburgh AIHA held a half-day transportation related event at The Meadows Casino and Conference Center. Speakers from NIOSH, Hub Intl., and Wellness Coaches USA traveled to Pittsburgh to present to our group and covered topics related to the research, implications, and potential solutions for safety, health and well-being of on-road fleet workers. The NIOSH Total Worker Health (TWH) approach was introduced as well as other industry approaches to workplace wellness in the trucking industry. If you were unable to attend -- [Speaker presentations have been made available and can be found on the meeting page.](#)

For this event, a survey was conducted afterwards to gather attendee comments about the event, venue, topic, etc. Overall, the results were positive rating the event as "very good". Most respondents rated the speakers and presentations as very good, and related comments noted that the content was interesting and provided useful information. As for the Meadows Casino & Conference Center as a choice for venue -- the facilities were very nice and well equipped, however a few mentioned that the location was too far from Pittsburgh, also parking was not as convenient as other meeting locations. The length of the event and value was right on target for most. Input from the attendees is very helpful and will be considered when organizing upcoming program events.

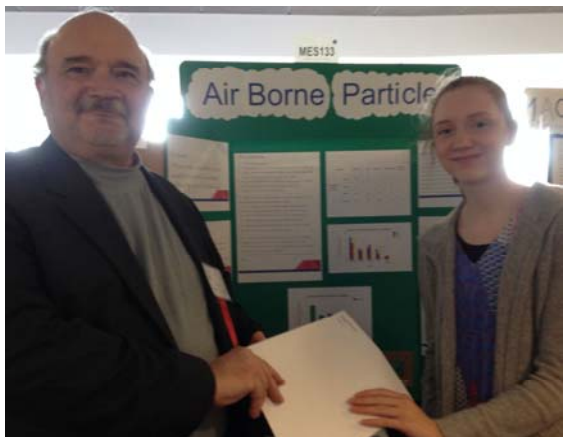
The following attendees participated in the event:

- Lucinette Alvarado, Covestro, LLC
- George Bender, GHB Consulting Services LLC
- Darrick Bertig, FirstEnergy Corporation

- Cody Bootes, Colden Corporation
- Rebecca Cernick, Covestro LLC
- Kris Corbett, Wellness Coaches, USA (SPEAKER)
- Carol Delfino, SE Technologies, LLC
- Dan Flanagan, Port Authority of Allegheny County
- Joel Haight, University of Pittsburgh
- Dave Hanshew, Instrumentation Systems Inc.
- Edward Hitchcock, CDC / NIOSH
- Warren Houseman, ENTACT, LLC
- Dennis Kelly, Sunoco Logistics Partners LP
- Christy Kirsch, SE Technologies, LLC
- Joe Kopko, HUB International (SPEAKER)
- Jennifer Lincoln, NIOSH
- Tom Luketich, IMTS
- Michael McElhinny, Colden Corporation
- Megan Melichar, FedEx Ground
- Jeannie Nigam, NIOSH (SPEAKER)
- Tad Pajak, QBE North America
- Julie Panko, Cardno ChemRisk
- Jay Parker, NIOSH / NPPTL
- Mark Perriello
- Kellie Pierson, NIOSH (SPEAKER)
- Frank Pokrywka, University of Pittsburgh
- Keith Rickabaugh, RJ Lee Group, Inc.
- Lisa Salamon, FedEx Ground
- Raffle Sessa, RCS Health & Safety Consulting, LLC
- Bill Shaw
- Karl Sieber, NIOSH (SPEAKER)
- William Tomlinson, Professional Training Associates, Inc.
- Dietrich Weyel, Occupational Health Consultants, Inc.
- Matt Zock, FedEx Ground

AIHA Pittsburgh Award Winners - 2016 Covestro Pgh. Regional Science & Engineering Fair

The Pittsburgh AIHA sponsored two \$500 awards at the 77th Covestro Pgh. Regional Science & Engineering Fair held April 1-2, 2016 at Heinz Field. The cash prizes were awarded by our two Pittsburgh AIHA volunteer judges - Secretary, Frank Pokrywka, CIH, and President-Elect, Dennis Kelly. Among all of the wonderful projects on display this year, Frank and Dennis chose the following two deserving students to receive the awards.



Molly Potts - 7th Gr. Student at the Carlo Campus School and her entry "Airborne Particulates"

Molly's experiment compared the amount of dust particles collected on homemade settling plate. The tape and cardboard plates were located at four different sites in Frick Park, Shadyside, along Route 28 and near her school. She microscopy counted the particulates collected on a 1 square centimeter section of the tape. Her findings reported twice as many particles/cm² on the Route 28 plate as on the Frick Park plate. From this she concluded less air particle pollution and cleaner air in the park vs. the other sampling sites.



Nishika Mohnot - 9th Gr. Student at Fox Chapel Area H.S. and her entry "Nanotechnology Oil Spill Clean-up"

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Nashika's experiment explored a possible method for removing oil from water using an iron nanomaterial known as Ferrofluid combined with magnetic separation. She combined mineral oil mixed with water then studied various concentrations of Ferrofluid having an affinity with the oil and the ability magnets to attract the iron nanoparticles to remove the oil from the water. She was hopeful that this clean-up method can one day be used to cost effectively clean oil spills from rivers, lakes and oceans.

It was the Fair's 77th year of open competition of research projects in the fields of science, mathematics, and engineering. This competition is open to all students in grades 6-12 from the 23 counties within Western Pennsylvania and one county in Maryland. The Science Fair has been a Pittsburgh tradition since 1940 and is the third oldest science fair in the United States under the affiliation of Society for Science and the Public, which facilitates the International Science and Engineering Fair. Visit: <http://www.scitechfestival.org> for more information.

Take **CONTROL** of your AIHce experience with tips from local IH/OH professionals on the best attractions at this year's location — the beautiful Inner Harbor in Baltimore, MD! [Click Below to watch---](#)



AIHce2016
INNER HARBOR BALTIMORE → MAY 21 - 26

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We appreciate your continued support of the Pittsburgh Local Section, which allows us to flourish and sponsor quality events and activities, offer scholarships and awards, and support the day-to-day operating expenses of the Pittsburgh AIHA which serves 175+ chapter members.



Extensive Evaluation and Review Lead to Updated Guidance Document on Working in Heat

[NIOSH - Research Rounds](#)

In the 30 years since the National Institute for Occupational Safety and Health (NIOSH) made major recommendations to prevent work-related heat stress, recent events have raised questions about working safely in hot environments. For example, during the Deepwater Horizon response and cleanup of 2010, crews worked through the hot Gulf of Mexico summer. That event, and the evaluation of accumulated research and literature characterizing effects of working with heat stress, prompted NIOSH to revise its guidance document *Criteria for a Recommended Standard: Occupational Exposure to Heat and Hot Environments* after an extensive scientific review. Although the recommended alert and exposure limits still protect workers in hot environments and remain unchanged, the revised document includes updated research findings, training, and intervention tools.

Working in hot environments—both outdoors and indoors—increases the risk of heat stress, which can cause injuries, disease, reduced productivity, and even death. To continue to protect workers from this serious work-related hazard, NIOSH investigators collaborated with other scientific experts, partners, and the public, through a request for comments and peer review, to revise the criteria document.

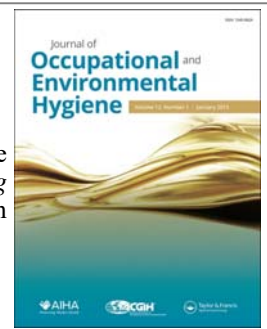
The finalized document includes guidance for safety and health professionals and employers, describing methods to protect workers from heat stress. These methods include medical monitoring; acclimatization; a recommendation of drinking 1 cup (8 oz.) of water or other fluids every 15–20 minutes; and differentiating between the symptoms of classic and exertional heat stroke. In classic heat stroke, sweating is usually absent, but in exertional heat stroke, sweating often occurs. Exertional heat stroke is more likely to occur in workers, so it is particularly important to re-educate workers who may have incorrectly learned that heat stroke occurs only without sweating. New training tools include a urine color chart, which is a good indicator of hydration status, and occupation-related case studies. As NIOSH continues to study this evolving area of workplace safety and health, possible subjects for future research are the effects of climate change on workers and of heat stress on chemical absorption in the body.

For more information, click the titles below:

[NIOSH Criteria for a Recommended Standard: Occupational Exposure to Heat and Hot Environments](#)

[Heat Stress](#)

HD Wipe Sampling Article Published in JOEH - Co-Author: Pittsburgh AIHA Director / President Elect - Matt Zock, MS, CIH (FedEx Ground)



Congratulations to Matt Zock, MS, CIH who was co-author on a recent article published in the JOEH. The article is titled *Surface Wipe Sampling for Antineoplastic (Chemotherapy) and Other Hazardous Drug Residue in Healthcare Settings: Methodology and Recommendations*. The article can be accessed through the [National AIHA Website](#).

Article Abstract:

Purpose: Surface wipe sampling for various hazardous agents has been employed in many occupational settings over the years for various reasons such as evaluation of potential dermal exposure and health risk, source determination, quality or cleanliness, compliance, and others. Wipe sampling for surface residue of antineoplastic and other hazardous drugs in healthcare settings is currently the method of choice to determine surface contamination of the workplace with these drugs. The purpose of this article is to review published studies of wipe sampling for antineoplastic and other hazardous drugs, to summarize the methods in use by various organizations and researchers, and to provide some basic guidance for conducting surface wipe sampling for these drugs in healthcare settings.

Methods: Recommendations on wipe sampling methodology from several government agencies and organizations were reviewed. Published reports on wipe sampling for hazardous drugs in numerous studies were also examined. The critical elements of a wipe sampling program and related limitations were reviewed and summarized.

Results: Recommendations and guidance are presented concerning the purposes of wipe sampling for antineoplastic and other hazardous drugs in the healthcare setting, technical factors and variables, sampling strategy, materials required, and limitations. The reporting and interpretation of wipe sample results is also discussed.

Conclusions: It is recommended that all healthcare settings where antineoplastic and other hazardous drugs are handled consider wipe sampling as part of a comprehensive hazardous drug 'safe handling' program. Although no standards exist for acceptable or allowable surface concentrations for these drugs in the healthcare setting, wipe sampling may be used as a method to characterize potential occupational dermal exposure risk and to evaluate the effectiveness of implemented controls and the overall the safety program. A comprehensive safe-handling program for antineoplastic drugs may utilize wipe sampling as a screening tool to evaluate environmental contamination and strive to reduce contamination levels as much as possible, using the industrial hygiene hierarchy of controls.



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Fit Test Adapters

Are necessary to interface between the respirator and the fit tester. Adapters connect where the APR cartridges or SCBA air hose connects to the respirator. Premier Safety can provide you with the necessary adapters for some of the industry's top manufacturer's respirators including 3M, Dräger, Scott, MSA, North Safety, Survivair, and many more.

Helpful Resources -- Lots of good information for rainy-day reading!

Thanks to Cindy Baldwin, CIH and the [Iowa-Illinois Local Section AIHA](#) for compiling this great list of resources and sharing this with the Pittsburgh AIHA -- You will certainly find some useful information provided in the links below.



Blogs of Interest:

- **2020 Science** (<http://2020science.org/>) – Andrew Maynard’s blog discusses nanotechnology, other emerging technologies, and the relationships between science, technology, and society.
- **Aetiology** (<http://scienceblogs.com/aetiology/>) – Dr. Tara C. Smith; discussing causes, origins, evolution, and implications of disease and other phenomena.
- **ASSE Safety Issues blog** (<http://americansocietyofsafetyengineers.blogspot.com/>) – latest online source for SH&E news and information.
- **Germination** - <http://phenomena.nationalgeographic.com/blog/germination/> Written by Maryn McKenna “Maryn McKenna is a journalist for national magazines and the author of Superbug and Beating Back the Devil. She finds emerging diseases strangely exciting.”
- **HearForever Blog.** HearForever (<http://hearforever.org/>) is an ongoing campaign by Howard Leight to build awareness about the risks, dangers, and consequences of noise-induced hearing loss (NIHL).
- **Human Health Risk Assessment to Chemicals** (Mike Jayjock) – <http://jayjock-associates.blogspot.com/>. An educational blog designed to introduce and facilitate industrial hygienists' involvement in quantitative risk assessment - especially exposure assessment and the specific area of exposure modeling.
- **microBENet** – <http://microbe.net/> The microbiology of the Built Environment network.
- **NIOSH Science Blog** – <http://blogs.cdc.gov/niosh-science-blog/>
- **OH-world** (<http://johncherrie.blogspot.com/>), a blog about exposure science, occupational hygiene and the work that John Cherrie carries out at the Institute of Occupational Medicine in Edinburgh, UK. His particular interest is in chemical exposures in the workplace and the environment.
- **OHSAS 18001 Expert**, Developing, Implementing, & Maintaining Occupational Health & Safety Management Systems. <http://ohsas18001expert.com/>
- **The Peter Sandman Risk Communication Website.** <http://www.psandman.com/whatsnew.htm>
- **Public Health Matters**, CDC – <http://blogs.cdc.gov/publichealthmatters/>
- **The Pump Handle**, a water cooler for the public health crowd – <http://scienceblogs.com/thepumphandle/>
- **Risk Bites** - <https://www.youtube.com/user/riskbites> A YouTube channel dedicated to making the science behind human health risks understandable and interesting.
- **Safety Awakenings** – <http://www.safetyawakenings.com/> NOTE: The January 21, 2014 post is an excellent list of toxicology references and databases -<http://www.safetyawakenings.com/toxicology-databases-and-reference-sources/>
- **Taylor’d Ergonomics** – <http://www.taylordergo.com/blog/>
- **Your Health – Your Environment** - <http://blogs.cdc.gov/yourhealthyourenvironment/> A blog to increase public knowledge about environmental health by sharing our concerns and our work as well as information you can use in your daily life.

Continuing Education Resources:

Stay up to date! SKC On Demand Webinars, presented by SKC industrial hygienist Debbie Dietrich, contain valuable information on impactful issues in occupational and environmental health and safety. Some webinars may be eligible for ABIH CM points. <http://www.skcinc.com/catalog/infopage.php?id=9060>

Indoor Air Quality in Schools Master Class Webinar Series. The School Health and Indoor Environments Leadership Development (SHIELD) Network has launched the IAQ Master Class Professional Training Webinar Series, which is comprised of ten 1-hour technical, core competency web-based trainings designed to build the capacity of school district staff across the country to start, improve, or sustain an IAQ management program. Gain recognition for your knowledge acquisition and commitment to action through certificates of completion for each training. Complete all 10 hours, and you will be acknowledged with a certificate that recognizes your efforts toward IAQ Mastery as a member of the 2015 SHIELD Network IAQ Master Class (CEUs pending). <http://www.epa.gov/iaq-schools/indoor-air-quality-schools-master-class-webinar-series>

Emergency Response/Preparedness:

- **Dealing with Disasters, Partnerships for Environmental Public Health (PEPH).** Every community is vulnerable to disaster, and every disaster presents a unique set of health hazards. Fortunately, it is possible to reduce disaster risk and improve

(Continued on page 8)

(Continued from page 7)

the resilience of our communities. In Part 1 of this 2-part series, hear about the types of health risks associated with disasters and how disaster research helps to reduce the health-related impacts of disasters. In Part 2, learn what NIEHS is doing to improve researchers ability to collect data, track recovery, and inform future disaster preparation and response as part of a national disaster risk reduction effort. Read more and listen to the podcasts at:

<http://www.niehs.nih.gov/research/supported/translational/peph/podcasts/disasters/>

- **Industrial Hygiene** - AIHA has begun publishing technical documents that represent the “Body of knowledge” that a competent and skillful practitioner should possess. The documents are available free on AIHA’s website at: <https://www.aiha.org/education/BoKs/Pages/body-of-knowledge.aspx> and currently consist of the following: Indoor Air Quality (IAQ), Respiratory Protection, and Direct Reading Instruments

Indoor Environmental Quality:

Workshop on the Health Risks of Indoor Exposure to Particulate Matter: The Institute of Medicine of the National Academies of Sciences, Engineering, and Medicine held a public workshop on February 10-11, 2016 to discuss the state of the science on the health effects of indoor exposure to particulate matter. This workshop featured presentations and discussions regarding the ailments that are most affected by particular matter and the attributes of the exposures that are of greatest concern, exposure modifiers, vulnerable populations, exposure assessment, risk management, and gaps in the science. Go to <http://www.nationalacademies.org/hmd/Activities/PublicHealth/Health-Risks-Indoor-Exposure-ParticulateMatter/2016-FEB-10.aspx> to find the workshop session speaker presentations and links to webcast videos. For more information on the speakers and planning committee, the biosketches of both are also located on that page under "Other Meeting Resources - Attachments."

Journals:

- American Journal of Industrial Medicine – [http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1097-0274](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0274)
- American Journal of Public Health <http://ajph.aphapublications.org/toc/ajph/current>
- Annals of Occupational Hygiene <http://annhyg.oxfordjournals.org/content/current>
- Archives of Environmental and Occupational Health – <http://www.tandfonline.com/toc/vaeh20/current>.
- ASHRAE Journal – <http://www.ashrae.org/publications/page/540>
- EHS Journal, Practical Solutions for Environmental, Health, and Safety Professionals <http://ehsjournal.org/>
- Environmental Health Perspectives See the Table of Contents for the current issue of EHP online at <http://ehp.niehs.nih.gov/>. Environmental Health Perspectives (EHP) is pleased to announce the launch of its iPhone app, which gives readers of the peer-reviewed journal access to research and news as soon as it is published online. This new format is another step in EHP's efforts to make high-quality science easier to access and available to more people than ever before. The app is available free through iTunes.
- Indoor Air. The journal of The International Society of Indoor Air Quality and Climate (ISIAQ), an international scientific organization whose purpose is to support the creation of healthy, productive, and comfortable indoor environments. [http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1600-0668](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1600-0668) NOTE: Special Issue: Keynote: Indoor Air 2014, February 2016. Online open access articles at <http://onlinelibrary.wiley.com/doi/10.1111/ina.2016.26.issue-1/issuetoc>.

Nanotechnology:

Best Practices Guidance for Nanomaterial Risk Management in the Workplace. Today’s nanotechnologies can substantially improve the properties of a wide range of products in all sectors of activity, from the manufacture of materials with ground-breaking performance to medical diagnostics and treatment—yet they raise major technological, economic, ethical, social and environmental questions. Some of the spinoffs we can expect include the emergence of new markets, job creation, improvements in quality of life and contributions to protection of the environment. The impact of nanotechnologies is already being felt in sectors as diverse as agroprocessing, cosmetics, construction, healthcare and the aerospace industry.

These new developments, which could mean exposure of a growing number of workers to these infinitesimally small particles, are of particular concern to workers in industry and staff in research laboratories. It is estimated that in 2015 about 10% of manufacturing jobs worldwide will be associated with nanotechnologies, and more than 2,000 commercial products will contain nanomaterials. Download the report at <http://www.irsst.qc.ca/en/headlines/id/285/best-practices-guidance-for-nanomaterial-risk-management-in-the-workplace>.

NIOSH:

Occupational Exposure Limits – State of the Science. <http://blogs.cdc.gov/niosh-science-blog/2016/02/22/oels/> Open access online articles published in the Journal of Occupational and Environmental Hygiene [JOEH, December 2015] focusing on the underlying principles for developing and interpreting OELs. Access articles at <http://www.tandfonline.com/toc/uoh20/12/sup1#.Vv2ewf7wt9A>.

OSHA:

The silica standards were published in the Federal Register on March 25, 2016. See OSHA’s silica webpage at <https://www.osha.gov/silica/index.html>.

Long-awaited Rule on Silica Unveiled at Emotionally Charged Event

OSHA Quick Takes Newsletter

OSHA held a [public event](#) on March 25 at the International Masonry Institute in Bowie, Md., to announce a final rule to protect workers by reducing their exposure to respirable silica dust. The rule will curb lung cancer, silicosis, chronic obstructive pulmonary disease and kidney disease in America's workers.

The event was attended by more than 200 people, including several victims of silica-related diseases.

Speakers included U.S. Secretary of Labor Thomas E. Perez, OSHA Assistant Secretary Dr. David Michaels and Tom Ward, whose father died of silicosis. Later, attendees were able to watch apprentice bricklayers demonstrate cutting and drilling equipment that uses water to keep dust from getting into the air or a ventilation system to remove it from the air.

The [final rule](#) contains two standards, one for construction and one for general industry and maritime. Both standards reduce the permissible exposure limit for crystalline silica and include employer requirements to protect workers, such as by limiting worker exposure through work practices and engineering controls; training workers; limiting their access to high exposure areas and providing medical exams to highly exposed workers.

Visit OSHA's [silica rule webpage](#) for factsheets, answers to frequently asked questions, and to sign up for [email updates](#) on compliance dates and resources.



"The tools that we need to protect workers are already out there. They're available. They're not prohibitively expensive, and they need to be implemented."

-Deven Johnson
 Director of Training, Health and Safety for the
 Operative Plasterers' and Cement Masons'
 International Association



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