

June 2015,
Issue 46

Army Industrial Hygiene News and Regulatory Summary

Hazardous Substances

Special Interest Articles:

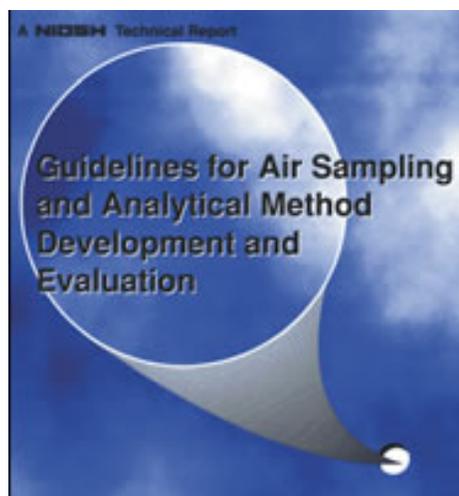
- [Geiger Counter](#)
- [Additive Effect](#)
- [UST](#)
- [Employee Well-Being](#)
- [Summer Safety](#)

DOEHRS Super Star

Harmonization of NIOSH Sampling and Analytical Methods with Related International Voluntary Consensus Standards

The NIOSH Manual of Analytical Methods (NMAM) is a compilation of analytical methods for air, biological, surface (including dermal), and bulk samples, as well as biological specimens, that have been evaluated and validated in consideration of their fitness for purpose for workplace exposure monitoring. NIOSH sampling and analytical methods are intended to promote accuracy, sensitivity, and specificity in industrial hygiene analyses and related applications. NMAM is published online and is available worldwide free of charge.

Read more: Journal of Occupational and Environmental Hygiene Volume 12, Issue 7, 2015 (Available with AIHA membership).



Contents:



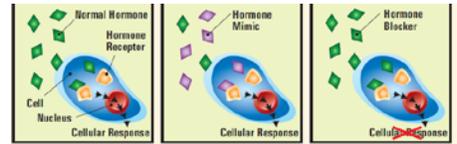
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EPA Uses Cutting-Edge Technology to Evaluate Chemicals for Human Hormone Impacts/New Technology Allows Faster and Less Costly Screening

EPA is proposing to use groundbreaking tools developed in the ToxCast program to improve testing for chemicals that have the potential to disrupt hormone function in the human body.

EPA uses automated chemical screening technologies to rapidly and simultaneously perform tests on thousands of chemicals and feed the results into computational models to predict hormone-related, endocrine activity. Some of these automated chemical screenings have been performed using robots from the federal Toxicology in the 21st Century, ("Tox21") consortium, a collaboration among EPA, the

National Institutes of Health (NIH) and the Food and Drug Administration (FDA). The new technology enables faster and less costly screening than conventional methods.



Read more:

<http://yosemite.epa.gov/opa/advpress.nsf/21b8983ffa5d0e4685257dd4006b85e2/77377414ba7ebc5885257e68006ea110!OpenDocument>

EPA Releases New Resources for Vapor Intrusion Assessment, Mitigation



Two new technical documents from EPA provide recommendations for identifying, evaluating, and managing vapor intrusion, and describe technical approaches for site-specific conditions and circumstances. The new documents supersede and replace

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EPA's Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils, which was released in 2002.

The Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air applies to sites being evaluated under federal land cleanup statutes by EPA, other federal agencies, state and tribal governments and brownfield grantees. The Technical Guide for Addressing Petroleum Vapor Intrusion at Leaking Underground

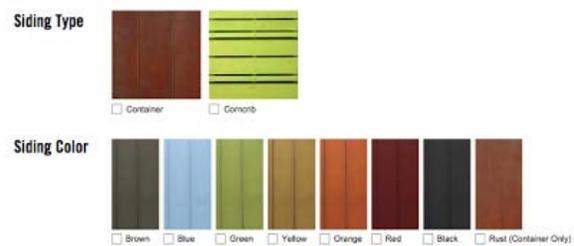
Storage Tank Sites addresses sites where vapor intrusion related to petroleum contamination from underground storage tanks is a potential concern.

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/EPA-Releases-New-Resources-for-Vapor-Intrusion-Assessment,-Mitigation.aspx>

NIOSH on Reducing Silica Exposure When Cutting Fiber-Cement Siding

A new NIOSH publication recommends controls for reducing construction workers' exposures to hazardous dust containing silica when cutting fiber-cement siding. According to the agency, the use of fiber-cement siding in construction and renovation is rapidly increasing, and fiber-cement products can contain as much as 50 percent crystalline silica. Though there are relatively dust-free methods of cutting fiber-cement board, using a power saw is the quickest and most precise method for cutting board for siding, the publication notes. A 2013 field survey found that a worker's uncontrolled exposure to respirable crystalline silica while cutting fiber-cement board resulted in an exposure



of between 0.02 and 0.13 mg/m³, or up to 2.6 times the NIOSH recommended exposure limit of 0.05 mg/m³.

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/NIOSH-on-Reducing-Silica-Exposure-When-Cutting-Fiber-cement-Siding.aspx>

IARC Monographs: 40 Years of Evaluating Carcinogenic Hazards to Humans

Background: Recently, the International Agency for Research on Cancer (IARC)

Programme for the Evaluation of Carcinogenic Risks to Humans has been



criticized for several of its evaluations, and also for the approach used to perform these evaluations. Some critics

have claimed that failures of IARC Working Groups to recognize study weaknesses and biases of Working Group members have led to inappropriate classification of a number of agents as carcinogenic to humans.

Objectives: The authors of this Commentary are scientists from various disciplines relevant to the identification and hazard evaluation of human carcinogens. We examined criticisms of the IARC classification process to determine the validity of these concerns. Here, we present the results of that examination, review the history of IARC evaluations, and describe how the IARC evaluations are performed.

Discussion: We concluded that these recent criticisms are unconvincing. The procedures

employed by IARC to assemble Working Groups of scientists from the various disciplines and the techniques followed to review the literature and perform hazard assessment of various agents provide a balanced evaluation and an appropriate indication of the weight of the evidence. Some disagreement by individual scientists to some evaluations is not evidence of process failure. The review process has been modified over time and will undoubtedly be altered in the future to improve the process. Any process can in theory be improved, and we would support continued review and improvement of the IARC processes. This does not mean, however, that the current procedures are flawed.

Conclusions: The IARC Monographs have made, and continue to make, major contributions to the scientific underpinning for societal actions to improve the public's health.

Read more:

<http://ehp.niehs.nih.gov/1409149/>

5 Features to Look for in Your Next Gas Monitor

When purchasing a gas monitor, you should think of it like buying a family car. You want the model that comes standard with premium safety features and functionality that will keep your family (or frontline workers) safest when they are on the road or in a haze of hazardous gases. But how do you identify the right gas monitor for you and your workers that will promote safety and save you time and money in an

increasingly crowded marketplace filled with ever-evolving options?

A baseline understanding of the most essential features and functionalities that will provide workers the greatest sense of security will put you on track to identifying a potential lifesaver, not a lemon.



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The following are five of the most important aspects to assess when purchasing your first - or next - gas monitor.

Read more <http://ehstoday.com/industrial-hygiene/5-features-look-your-next-gas-monitor>

Radiation

The Best Way to Map Radiation? Bento Boxes Stuffed With Geiger Counters

Back in 2011, a team of volunteers crammed Geiger counters into bento-shaped boxes to map the radiation following the Fukushima meltdown. It turned into the biggest collection of radiation data in history. Next up: tackling air pollution.

The nonprofit, formed one week after the March 2011 Great Tohoku Earthquake to

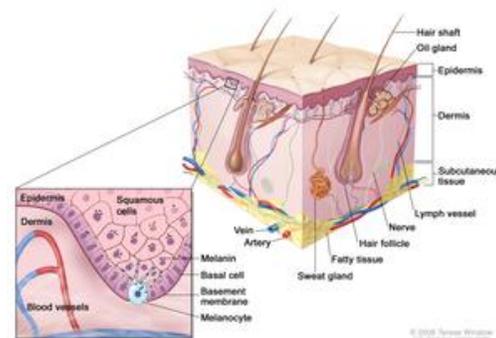
map Fukushima radiation, is called Safecast. To date, it has now gathered 32 million data points around the world using 800 sensors, making the biggest project of its kind in history.

Read more: <http://www.bing.com/news/search?q=radiation+&FORM=NWRFSH>

Rates of New Melanomas – Deadly Skin Cancers – Have Doubled Over Last Three Decades

Melanoma rates doubled between 1982 and 2011 but comprehensive skin cancer prevention programs could prevent 20 percent of new cases between 2020 and 2030, according to this month's Vital Signs report.

Skin cancer is the most common form of cancer in the U.S., and melanoma is the most deadly type of skin cancer. More than 90 percent of melanoma skin cancers are due to skin cell damage from ultraviolet (UV) radiation exposure. Melanoma rates increased from 11.2 per 100,000 in 1982 to 22.7 per 100,000 in 2011. The report notes



that without additional community prevention efforts, melanoma will continue to increase over the next 15 years, with 112,000 new cases projected in 2030. The annual cost of treating new melanoma

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cases is projected to nearly triple from \$457 million in 2011 to \$1.6 billion in 2030.

Read more:

<http://www.cdc.gov/media/releases/2015/p0602-melanoma-cancer.html>

Ventilation

2015 ASHRAE Handbook Focuses on HVAC Applications

New chapters on smart building systems and moisture management in buildings are included in the 2015 edition of ASHRAE Handbook—HVAC Applications.

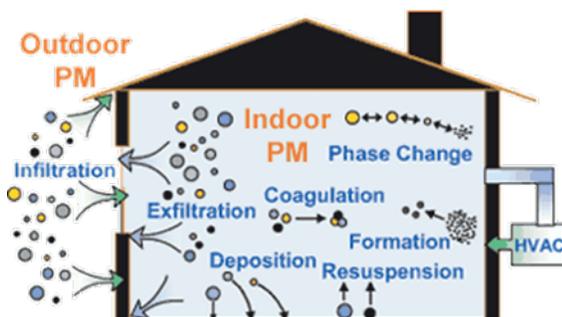
Consisting of 1,200 pages covering a broad range of facilities and topics, the newly published volume is written to help engineers design and use equipment and

systems described in other Handbook volumes. Main sections cover comfort, industrial, energy-related, and general applications and building operations and management.

Read more: <http://hvac.com/archive/2015-ashrae-handbook-focuses-hvac-applications>

PPE

New Tool Helps IHs Choose Respiratory Protection for Bioaerosols



Quebec-based research organization IRSST recently released a Web-based support tool intended to help industrial hygienists and occupational health and safety

professionals, including physicians, choose respiratory protection against bioaerosols in the workplace. The tool guides users through a six-step process and proposes appropriate respiratory protection based on the hazards associated with infectious or non-infectious bioaerosols present in the workplace and workers' level of exposure. Users are asked to provide information on the sector for which the tool is being used; the risk group; the air-quality control level in the workplace; and the bioaerosol generation rate. Based on the parameters selected by the user, the tool helps determine the assigned protection factor

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(APF) and then presents a table of various respirators and corresponding APFs.

Read more:

[https://www.aiha.org/publications-and-](https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/New-Tool-Helps-IHs-Choose-Respiratory-Protection-for-Bioaerosols.aspx)

[resources/TheSynergist/Industry%20News/Pages/New-Tool-Helps-IHs-Choose-Respiratory-Protection-for-Bioaerosols.aspx](https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/New-Tool-Helps-IHs-Choose-Respiratory-Protection-for-Bioaerosols.aspx)

Noise

Strike Up the Band and Pass the Earplugs!

Professional musicians such as orchestra, band members and music teachers, as well as others in the music industry such as disc jockeys, audio engineers and crew members all are at risk for developing permanent hearing loss, ringing in the ears and other hearing disorders from prolonged exposure to loud music.

Exposures to noise exceeding 85 decibels over 8 hours (dBA) are considered hazardous, and if the noise reaches 100 dBA, it only could take 15 minutes to cause permanent damage if exposed for a prolonged period of time.



Read more:

<http://ehstoday.com/hearing-protection/strike-band-and-pass-earplugs>

Health Break: Protect Your Hearing This Summer



Do you use a lawn mower or leaf blower for several hours at a time without wearing hearing protection? Have you attended a concert and left with your ears ringing? Have you used a firearm without protecting your hearing? If you have engaged in any of these activities, you may have caused yourself noise-induced hearing loss.

Approximately 48 million Americans have hearing loss. One in three of these

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individuals developed his or her hearing loss as a result of exposure to noise. NIHL can be caused by a sudden or “impact” sound and/or long-term exposure to noise, which damages the hair cells that are found in the inner ear. Hair cells are small sensory cells that convert the sounds we hear (sound energy) into electrical signals that travel to the brain. Once hair cells are damaged, they

cannot grow back, resulting in permanent hearing loss.

Read more :

<http://www.centredaily.com/2015/06/21/4804581/health-break-protect-your-hearing.html#storylink=cpy>

Preventive Medicine

Chemicals Considered Safe Alone May Trigger Cancer in Combination

New research shows that 50 chemicals people are exposed to daily, all of which are considered non-carcinogenic, may cause cancer when combined.

The series of studies which comprise the research, worked on by 174 scientists in 28 countries, considered links between 85 common chemicals thought not to cause cancer. Fifty were found to interact at ordinary environmental exposure levels to support cancer-related mechanisms.

$$\frac{C_1}{t_1} + \frac{C_2}{t_2} + \dots + \frac{C_n}{t_n}$$

Read more:

http://www.upi.com/Health_News/2015/06/23/Chemicals-considered-safe-alone-may-trigger-cancer-in-combination/3571435066451/

Prevention and Early Treatment of RMSF in Arizona May Save Millions by Preventing Premature Death and Disability

The mounting costs of an epidemic of Rocky Mountain spotted fever (RMSF) among several American Indian tribes in Arizona suggests that prevention and control efforts would be cost effective. A recent study released by experts at the Centers for Disease Control and Prevention (CDC) and the Indian Health Service (IHS), in



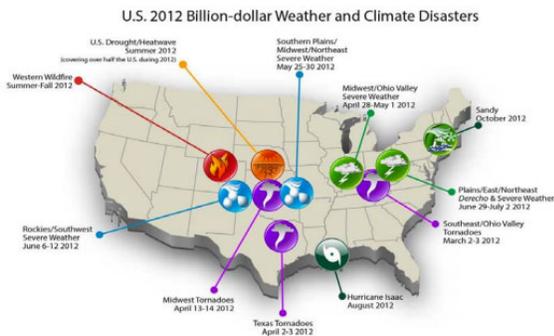
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partnership with Arizona tribes, describes an estimated \$13.2 million in losses linked to the epidemic of RMSF between 2002 and 2011, on two Indian reservations.

Read more:

<http://www.cdc.gov/media/releases/2015/p0619-RMSF.html>

Climate Change Presents 'Potentially Catastrophic' Risks to Public Health, Lancet Commission Study Finds



Climate change poses such a threat to public health it risks undoing the gains of the last 50 years, a major study has found.

The Lancet Commission on climate change and health has found the threat continues to be underestimated, but that tackling it could be a huge opportunity to improve global health.

Read more:

<http://www.abc.net.au/news/2015-06-23/climate-change-and-its-impacts-on-public-health/6564860>

WHO Agency Says Insecticides Lindane and DDT Linked to Cancer

The insecticide lindane, once widely used in agriculture and to treat human lice and scabies, causes cancer and has been specifically linked to non-Hodgkin lymphoma, the World Health Organization said on Tuesday.



The WHO's International Agency for Research on Cancer (IARC) also said that DDT, or dichlorodiphenyltrichloroethane, probably causes cancer, with scientific evidence linking it to non-Hodgkin lymphoma (NHL), testicular cancer and liver cancer..

Read more:

<http://www.sciencedaily.com/releases/2015/05/150521121047.htm>

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Army Researchers Look For Permanent End to Ebola Virus



Getting rapid treatment for wounds or injuries suffered on the battlefield can mean the difference between life and death.

The U.S. Army Edgewood Chemical Biological Center, or ECBC, and the U.S.

Army Medical Research Institute of Infectious Diseases, or USAMRIID, are partnering to help expedite progress in the global fight against Ebola.

ECBC is working with USAMRIID on two critical studies - a vaccine study and a biomarker study - that will advance the global fight against Ebola.

Read more:

http://www.army.mil/article/148408/Army_researchers_look_for_permanent_end_to_Ebola_virus/

Environmental Health

EPA Takes First Steps to Address Greenhouse Gas Emissions from Aircraft

EPA is proposing to find under the Clean Air Act that greenhouse gas (GHG) emissions from commercial aircraft contribute to the pollution that causes climate change endangering the health and welfare of Americans. At the same time, the agency is releasing information about the international process already underway by the International Civil Aviation Organization (ICAO) for developing carbon dioxide (CO₂) standards for aircraft and EPA's participation in that process. EPA is now seeking public input to inform future steps by the agency.



Read more

<http://yosemite.epa.gov/opa/advpress.nsf/21b8983ffa5d0e4685257dd4006b85e2/5d>

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[9ac93a7c48c1aa85257e6000647804!OpenDocument](#)

EPA Strengthens Underground Storage Tank Requirements to Improve Prevention and Detection of Leaks



EPA is strengthening the federal underground storage tank (UST) requirements to improve prevention and detection of petroleum releases from USTs

which are one of the leading sources of groundwater contamination. EPA's action will strengthen existing requirements and help ensure all USTs in the United States meet the same release protection standards.

Read more:

<http://yosemite.epa.gov/opa/admpress.nsf/21b8983ffa5d0e4685257dd4006b85e2/5adf2c80b39c8b1c85257e6c0062de2a!OpenDocument>

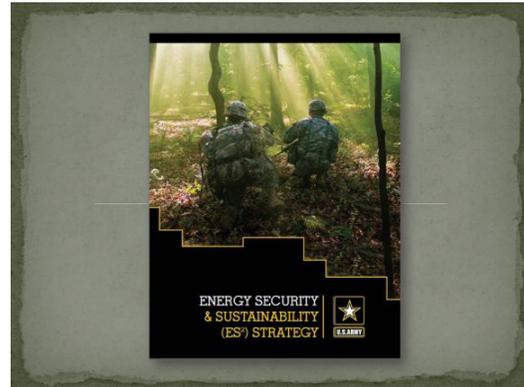
U.S. Army Publishes Energy Security and Sustainability Strategy

The U.S. Army has published and released its strategic roadmap to future energy security and sustainability.

The Energy Security and Sustainability (ES2) Strategy will foster a more adaptable and resilient force, prepared for a future defined by complexity, uncertainty and rapid change

Read more:

<http://www.enn.com/ecosystems/article/48530>



EPA Report Shows Progress on and Identifies Opportunity to Advance G7's Recognition of Circular Economy



EPA released the Advancing Sustainable Materials Management (SMM) Facts and Figures report showing progress in consumer electronics

recycling in the United States. Consumer electronics recycling went up from 30.6

percent in 2012 to 40.4 percent in 2013, the same year EPA launched the SMM Electronics Challenge to promote responsible donation and recycling of used electronics.

Read more:

<http://yosemite.epa.gov/opa/admpress.nsf/21b8983ffa5d0e4685257dd4006b85e2/75b8bf484e3d3a5185257e67006ee11b!OpenDocument>

Ergonomics

Emphasize Employee Well-Being as Much as Productivity, Says Study

Workplaces that value employees' safety and well-being as much as company productivity yield the greatest rewards, according to a study done by researchers at Colorado State University and the Colorado School of Public Health.

The study, "Ergonomics Climate Assessment: A measure of operational performance and employee well-being," was published in Applied Ergonomics. The researchers describe a new tool they developed called an Ergonomics Climate Assessment, which measures employee perception of their workplace's emphasis on the design and modification of work to maximize both employee performance and



well-being. The study was funded by the Centers for Disease Control and Prevention's National Institute for Occupational Safety and Health.

Read more at: <http://phys.org/news/2015-06-emphasize-employee-well-being-productivity.html#jCp>

Safety

Virginia Becomes First State to Enact VPP Bill



Virginia Governor Terry McAuliffe recently signed a bill for the Voluntary Protection Programs (VPP) Act, making Virginia the first state in which the program will be permanent within its OSHA state plan. AIHA has been a strong supporter of the bill, which was passed unanimously in the general assembly. The VPP system encourages companies to take safety “above and beyond” OSHA’s safety

requirements, according to the Voluntary Protection Programs Participants' Association (VPPPA) press release.

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/Virginia-Becomes-First-State-to-Enact-VPP-Bill.aspx>

Federal Working Group Makes Progress to Improve Chemical Facility Safety, Security

A new fact sheet outlines the progress made by a working group of federal agencies to improve chemical facility safety and security in the U.S. during the past year. The Chemical Facility Safety and Security Working Group was established by an executive order issued in August 2013 and charged with identifying possible improvements to risk management practices and developing potential regulatory and legislative proposals to improve the storage, handling, and sale of ammonium nitrate.

A banner with a dark blue background. On the left, the text "Chemical Security" is written in a white serif font. On the right, there is a photograph of an industrial chemical facility at night, with lights and structures visible.

Chemical Security

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/Federal-Working-Group-Makes-Progress-to-Improve-Chemical-Facility-Safety,-Security.aspx>

OSHA and Health Canada Partner to Coordinate Classification and Labeling of Hazardous Workplace Chemicals



OSHA is continuing its partnership with Health Canada to align United States and Canadian regulatory approaches to classifying hazardous workplace chemicals

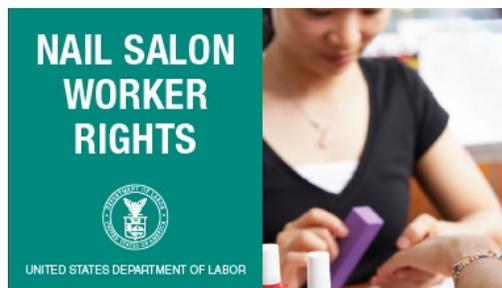
and communicating hazard information. The organizations will work together to reduce inconsistencies among hazard communication regulations and provide concise information to protect workers exposed to chemicals without reducing current protections.

Read more:

<https://www.osha.gov/as/opa/quicktakes/qt061515.html>

OSHA Teams With Wage and Hour Division to Protect Nail Salon Workers

The Department of Labor's Wage and Hour Division and OSHA are working together to educate nail salon workers about their rights to a safe workplace and fair pay. Two new publications – a Nail Salon Worker Rights flyer and wallet card – explain basic workplace rights, highlight chemical hazards and their health effects, and list practices to protect worker health. The new materials also include information on a worker's right to be paid full and fair wages for all hours worked, including minimum wage and deductions, overtime pay, and recordkeeping of all wages.



Read more:

<https://www.osha.gov/as/opa/quicktakes/qt060215.html>

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As the Weather Heats Up, OSHA and NOAA Promote Summer Safety Campaign

Summer is almost here!

This is why OSHA and NOAA are joining forces to promote a Summer Safety Campaign.

OSHA provides resources for workplace preparedness and response to severe weather emergencies that can arise during summer, including: hurricanes, wildfires and floods as well as severe heat. OSHA and NOAA encourage employers to be aware of weather forecasts, train workers on severe weather plans and keep emergency supplies, including a battery-operated weather radio.



[new-framework-proposed.aspx?admgarea=news](#)

Read more:

<http://ohsonline.com/articles/2015/05/06/>

OSHA Publishes Best Practices on Restroom Access for Transgender Workers



A new publication by OSHA provides guidance to employers on best practices regarding restroom access for transgender workers. OSHA requires that all employers under its jurisdiction provide employees with sanitary and available toilet facilities, so that employees will not suffer the

adverse health effects that can result if toilets are not available when employees need them. The core principle of the guidance is that all employees, including transgender employees, should have access to restrooms that correspond to their gender identity. OSHA's goal is to assure that employers provide a safe and health working environment for all employees.

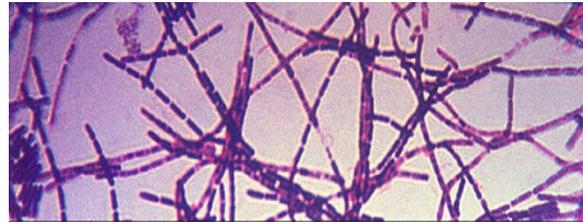
Read more:

<https://www.osha.gov/as/opa/quicktakes/qt060215.html>

Army Lab Lacked Effective Anthrax-Killing Procedures for 10 Years

The U.S. Army research facility that has mistakenly shipped live anthrax to unsuspecting labs in the U.S. and abroad for more than 10 years failed to have effective and standardized procedures for killing the deadly bacteria with radiation, according to a federal investigation report obtained by USA TODAY.

The report, dated June 5, cites the Dugway Proving Ground's Life Science Test Facility in Utah with three violations of federal regulations for working with potential bioterror agents and orders the facility to immediately cease all shipments of "inactivated" anthrax specimens.



Read more:

<http://www.usatoday.com/story/news/2015/06/17/anthrax-shipments-bruce-ivins-emails/28883603/>

Emergency Preparedness & Response

HHS Launches GIS-Based Tool for Health Disaster Readiness



The HHS emPOWER Map, an interactive online tool, launched today to aid community health agencies and emergency management officials in disaster preparedness as they plan ahead to meet the emergency needs of community

residents who rely on electrically powered medical and assistive equipment to live independently at home.

The new tool is sponsored by the U.S. Department of Health and Human Services' Office of the Assistant Secretary for Preparedness and Response (ASPR) in its ongoing efforts to support community resilience and build national health security.

"For people who rely on electricity-dependent medical equipment, prolonged power outages can mean life or death,"

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explained Dr. Nicole Lurie, HHS' assistant secretary for preparedness and response. "This tool helps communities better anticipate, plan for, and respond to these unique needs of this population and improve resilience for the entire community before and after disasters."

Read more:

<http://spatialnews.geocomm.com/dailynews/2015/jun/24/news2.html>

No Government Agency Oversees Handling of Deadly Pathogens in 1,495 U.S. Labs

According to the CDC, 181 "organizations or entities" in the United States are registered as working with live anthrax, and 321 in total working with live pathogens. Within these 321 entities, roughly 1,495 laboratories are accredited under the Federal Select Agent Program to work with live pathogens such as anthrax. There is no official government agency to oversee production and research of bioweapons that does not – as the CDC does — engage in its own active pathogen research. "Even one spore is a sufficient seed stock from which an amount could grow to mount a biological weapons attack," says one expert. "The sad circumstance is that this massive effort [U.S. research on anthrax] since 2001 has dramatically increased the chances of a biological weapon attack on the U.S., precisely by distributing a highly lethal

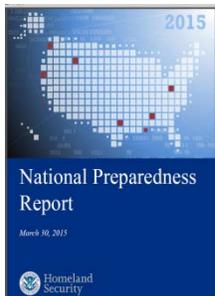


strain of the agent with no structure and no ability to record where they have gone."

Read more:

<http://www.homelandsecuritynewswire.com/dr20150609-no-government-agency-oversees-handling-of-deadly-pathogens-in-1-495-u-s-labs>

National Preparedness Report



This page provides information on the 2015 National Preparedness Report, including the

overarching findings on national issues, preparedness progress, and opportunities for improvement. This page is for anyone interested in seeing how preparedness can inform priorities and community actions.

Read more:

<https://www.fema.gov/national->

[preparedness-report](#)

Deployment Health

'Hoverbike' Could Join the Fleet in 3 To 5 Years

The military is working to develop a Star Wars-style "hoverbike" that uses a motorcycle engine and small rotors to soar up to 9,000 feet high.

A British startup firm and a U.S. defense contractor are working with the Army Research Laboratory in Maryland to test a prototype aircraft that could transform the way U.S. troops operate in difficult terrain.

The aircraft could be available for procurement within three to five years, a company official said.

Read more:

<http://www.militarytimes.com/story/military/tech/2015/06/25/hoverbike-could-join-the-fleet-in-3-to-5-years/29155375/>

Army Scientists Test Fabric for New Warfighter Uniforms

The Defense Threat Reduction Agency is leading an effort to design a new warfighter uniform - with added protection against chemical warfare agents encountered in the field.

Army scientists are using both standard and new methods to test fabrics, which will be used in the new suit.

Read more:

<http://www.army.mil/article/151057/Army>



[_scientists test fabric for new warfighter uniforms/](#)

FDA Clears New Traumatic Brain Injury Assessment Device



A new handheld medical device for analyzing brain injuries has been cleared by the U.S. Food and Drug Administration, or FDA. In May 2015, the Ahead 200 was cleared by the FDA to help clinicians assess mildly-presenting head trauma patients.

The device, which was developed by the U.S. Army Medical Research and Materiel Command's Combat Casualty Care Research Program, or CCRP, and the BrainScope Company, Inc., uses commercial smartphone technology to analyze a patient's brain activity for signs of a traumatic brain injury within 24 hours of the injury.

Read more:

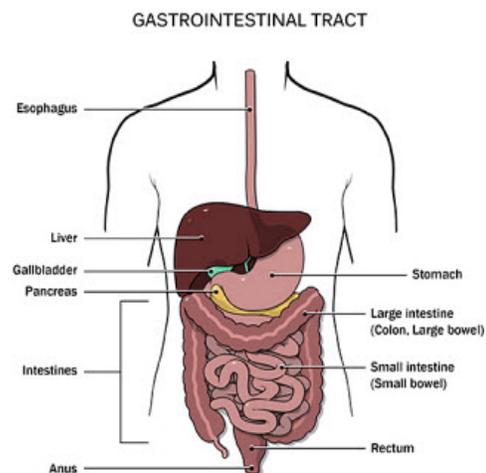
http://www.army.mil/article/151149/FDA_clears_new_traumatic_brain_injury_assessment_device/

Nanotechnology

Tiny Particles, Big Impact? Researchers Investigating How Ingesting Nanoparticles May Influence Health

Researchers at Binghamton University believe understanding nano particles' ability to influence our metabolic processing may be integral to mediating metabolic disorders and obesity, both of which are on the rise and have been linked to processed foods.

An associate professor of biological sciences, and an assistant professor of biomedical engineering, are collaborating on a research project funded by a Binghamton University Transdisciplinary



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Areas of Excellence (TAE) grant to discover the role ingested nanoparticles play in the physiology and function of the gut and gut microbiome.

Read more:

<http://www.sciencedaily.com/releases/2015/06/150608120044.htm>

Regulatory Research & Industrial Hygiene Professional News

AIHA

Spanish Translation of IH MOD Tool Now Available

"En español, por favor..."

AIHA recently released the Spanish translation of IH MOD, which was translated by Carlos Castro, a master's student from the Department of Occupational Health at the Université de Montréal. IH MOD is a flexible Microsoft Excel spreadsheet that uses basic modeling algorithms to help industrial hygienists conduct exposure assessments. Also available in English, French, German, and Korean, IH MOD provides users with a basic understanding

of each algorithm's function, parameters, and results.

IH MOD is available for free download on the Exposure Assessment Strategies Committee Web page.

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/AIHANews/Pages/Spanish-Translation-of-IH-MOD-Tool-Now-Available.aspx>

Congress

Chemical Safety Bill Advances



The House easily passed a measure that would make the first major changes in 39 years to a law intended to protect people from exposure to toxic chemicals. The House voted. 398 to 1, to pass a bill designed to update and strengthen the 1976 Toxic Substances Control Act, which has been criticized as outdated and toothless by environmental advocates and

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the chemical industry. The Senate is expected to take up a companion bill next month. The bills would require the Environmental Protection Agency to begin studying the health effects of about 64,000 chemicals that are used in commerce. But public health advocates complain that the pace of study would be too slow.

Read more:

<http://www.nytimes.com/2015/06/24/us/c hemical-safety-bill-advances.html?ref=health& r=0#>

AIHA's Director of Government Affairs Reacts to Draft FY 2016 Funding Bill

AIHA's director of government affairs, discusses the budget outlook for occupational health and safety agencies following last week's release of the House Appropriations Committee's draft fiscal year (FY) 2016 Labor, Health and Human Services funding bill:

"The House proposal is to cut OSHA's budget by 3.2 percent, down to \$535 million, whereas the president had proposed an increase in the OSHA budget, from the current \$553 million to \$592 million. To show you how the House feels about OSHA, many of the other agencies within the Labor Department are level funded or have slight increases. There are currently no details as to where the cuts



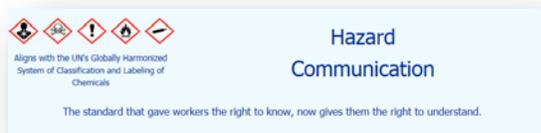
would be made, but the draft bill specifies that the State Plans would receive \$103 million, which is close to the president's recommended \$104.3 million.

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/AIHANews/Pages/AIHA%27s-Director-of-Government-Affairs-React-to-Draft-FY-2016-Funding-Bill.aspx>

OSHA

OSHA Clarifies HCS 2012 Requirements for Labeling Existing Stock



Chemical distributors may continue to ship chemicals with labels that comply with OSHA's 1994 Hazard Communication Standard (HCS) until Dec. 1, 2015, according

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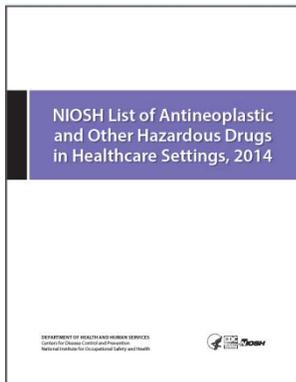
to interim guidance issued by the agency on May 29. The guidance is intended to allay concerns from distributors that beginning June 1, OSHA's 2012 HCS, which aligns the standard with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS), would require them to relabel existing stock already packaged for shipment.

Read more:

<https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/OSHA-Clarifies-HCS-2012-Requirements-for-Labeling-Existing-Stock.aspx>

NIOSH

NIOSH Proposes Additions to Hazardous Drug List



NIOSH has proposed that 33 new drugs, along with three others that already have safe-handling recommendations from the manufacturer, be added to the

agency's hazardous drug list for healthcare settings in 2016. A new draft document lists the proposed additions for public comment.

Comments on this list must be submitted by July 27, 2015. Visit the docket page on Regulations.gov for supporting documents and instructions on submitting comments.

Read more

<https://www.aiha.org/publications-and-resources/TheSynergist/Industry%20News/Pages/NIOSH-Proposes-Additions-to-Hazardous-Drug-List.aspx>

DoD

GAO Discovers More Problems at Military Labs beyond Anthrax Fiasco

The Defense Department failed in the oversight of its high-containment laboratories leading up to the anthrax scandal and also mismanaged the program to fix crumbling infrastructure at its vast array of facilities for chemical and biological



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defense, the Government Accountability Office reported.

In addition, Pentagon officials last week said that Defense Department has yet to determine how much money was spent on the botched 10-year program that shipped live anthrax samples around the nation and

the world to laboratories and contractors for experimentation.

Read more: <http://www.military.com/daily-news/2015/06/29/gao-discovers-more-problems-military-labs-beyond-anthrax-fiasco.html>

USAPHC

TIP Sheet: How to Handle Censored Industrial Hygiene Data

USAPHC has created the TIP document "How to Handle Censored IH Data," which can be accessed through the Resource Materials tab on the main page. This document outlines the proper ways to handle censored industrial hygiene monitoring data when performing industrial hygiene exposure calculations.

Future access will also be available from the USAPHC Industrial Hygiene webpage under the Exposure Assessment Strategies topics page.

Read more: [http://phc.amedd.army.mil/PHC%20Resource%20Library/HowtoHandleCensoredIndustrialHygieneData TIP No 55-039-0615.pdf](http://phc.amedd.army.mil/PHC%20Resource%20Library/HowtoHandleCensoredIndustrialHygieneData_TIP_No_55-039-0615.pdf)

New CIH

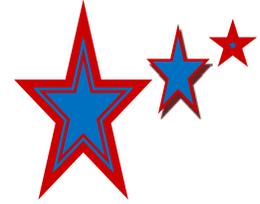
Congratulations to LTC Kenneth Spicer for passing the spring CIH exam. His hard work and persistence has paid off.



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How to become a DOEHRS-IH Super Star

- ✓ Do feel like you use DOEHRS-IH more than other program offices?
- ✓ Do you feel unnoticed?
- ✓ Do you feel like you have done great IH things with DOEHRS-IH?
- ✓ Do you wear a unitard and cape under your clothes? (Don't answer this question please)



Email the **Industrial Hygiene Training Coordinator** a brief synopsis about a new idea, a faster way, or a milestone you just met. Your Program Office just may be nominated as the monthly DOEHRS-IH **Super Star**.

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Training

This monthly summary is published by the Industrial Hygiene and Medical Safety Management Program (IHMSMP) for the U.S. Army Public Health Command.



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Transitioning to a New Format!

Please be patient while we transition to a new training format. In the past, the AIPH Blackboard courses were dependent on Defense Connect Online recordings; however, DCO is no more, our existing material is being converted to a new format that automatically allows recordings to play within Blackboard. Continue to check the training website as we add course material daily. Some courses are already up and running. So visit <https://aiph-dohs.ellc.learn.army.mil> to check their availability.

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