



The National Institute for Occupational Safety and Health (NIOSH)

The National Institute for Occupational Safety and Health (NIOSH) Home



eNews: Volume 20, Number 5 (September 2022)

Download this page









Volume 20, Number 5 (September 2022)

From the Director's Desk

John Howard, M.D. Director, NIOSH

Farm Safety and Health Week 2022: Protecting the Future of Agriculture

For many areas of the country, September marks one of the busiest times for agricultural producers: harvest season. Agriculture is one of the oldest and most hazardous
work sectors. Each September we observe National Farm Safety and Health Week
to reinforce injury and illness prevention.

The theme for this year, observed September 18–24, is "Protecting Agriculture's Future ." Throughout the week, the NIOSH Centers for Agricultural Safety and Health (Ag Centers) will share messages from a social media toolkit . developed by the Upper Midwest Agricultural Safety and Health Center . These messages will cover a variety of daily themes to encourage safe and healthy practices on the farm. You can follow #NFSHW22 and #USAgCenters on social media for the latest resources and information. NIOSH and partners across the country will also offer training and educational opportunities throughout the week. For example, you can view AgriSafe's . twice-daily webinars . highlighting the daily themes.

NIOSH has a long history working in agriculture. The NIOSH Ag Centers recently celebrated 30 years of research and outreach. In addition, the NIOSH Office of Agriculture Safety and Health marked its tenth anniversary of research and partnership development. NIOSH remains well-positioned to address persistent and emerging occupational safety and health issues in agriculture moving forward.

Like this year's theme, NIOSH is looking toward the future of health and safety in agriculture. In 2019, NIOSH launched its Future of Work Initiative to discover emerging work-related trends that impact worker well-being. In agriculture, the future of work includes



In This Issue:

Director's Desk

 Farm Safety and Health Week
 2022: Protecting the Future of Agriculture

Research Rounds

- American Indian and Alaska
 Native Coal Miners Face Higher
 Risk of Lung Disease
- New Primer Aids Research to Practice

Highlights

- Respiratory Protection Week is September 6–9!
- Attend the 3rd International Symposium to Advance *Total* Worker Health® From Anywhere

- Farming environments that are new or changing.
- Emerging technologies in automation and data collection that will impact job tasks and agricultural practice.
- Applying *Total Worker Health*® approaches.
- Changing demographics and skillsets for the next generation of farmers and workers.

NIOSH and its partners are crossing new frontiers to protect workers in a changing industry. We do this through innovative research, education, and outreach efforts. In November, NIOSH will co-host the SAFER AG Workshop at the University of Illinois Urbana-Champaign, which aims to start conversations around the benefits and potential hazards of robotics in agriculture. Experts on the NORA Agriculture, Forestry, and Fishing Council inform multidisciplinary efforts to advance OSH research in agriculture. The NIOSH Ag Centers actively work to protect the future of agriculture. The following are just a few examples of their many outreach efforts:

- The Great Plains Center for Agricultural Health ☐ hosts the FarmSafe
 Podcast ☐ that educates farmers and farming communities to prevent injury and illness.
- The Pacific Northwest Agricultural Safety and Health Center 🖸 informs policymakers and workers on heat stress 🖸 and wildfire smoke 🖸 .

We depend on farms and farmworkers to feed our families, communities, and nation. Agriculture will have to adapt to increased demand just as available land, water, and labor are decreasing . In this changing landscape, we will continue to support and conduct research to ensure a safer and healthier future for agricultural workers.

Research Rounds

American Indian and Alaska Native Coal Miners Face Higher Risk of Lung Disease

American Indian and Alaska Native coal miners had higher levels of lung disease compared with other western U.S. coal miners, according to research recently published in the *American Journal of Industrial Medicine* . The majority of these coal miners worked as surface miners.

In 2014, a federal rule reduced the level of permissible exposure to coal mine dust and expanded screening for lung disease to include surface miners. Because many surface mines in the United States are located near American Indian and Alaska Native communities, NIOSH researchers looked at the occurrence of lung disease among these groups of miners.

During 2014–2019, researchers reviewed the results of 1,405 chest X-rays and 627 lung function, or spirometry, tests for American Indian and Alaska Native miners participating in the NIOSH Coal Workers' Health Surveillance Program. Established in 1969, this program provides health screening and information at no cost to miners nationwide.

Most of the miners lived in the western United States, worked as surface miners, and had never worked in underground mines. Overall, 9% of the American Indian and Alaska Native miners had abnormalities in lung function

- Small Business Handbook
 Updated With Heat-related
 Illness Prevention Checklist
- Register Today for the Next NIOSH Expanding Research Partnerships Webinar!
- NIOSH and Partners Renew Alliance to Advance the Safety of Oil and Gas Workers
- NIOSH Congratulates

Monthly Features

- New Communication Products& Reports
- NIOSH Science Blog
- Federal Register Notice
- NORA
- News From Our Partners
- Conferences, Meetings,
 Webinars, & Events

NIOSH eNews is Brought to You By:

John Howard, M.D., Director Christina Spring, Editor in Chief

Managing Editor

Tanya Headley

Section Editor

Anne Blank, Research Rounds Kiana Harper, Highlights & Monthly Features

Contributing Editors

Sarah Mitchell Donjanea Williams

Copy Editor

Cheryl Hamilton

Technical Support

Steve Leonard, Technical Lead Sabrina Nur, Web Developer

Sign up for NIOSH eNews

To receive the NIOSH eNews email newsletter, enter your email address:

identified through spirometry testing. This percentage is comparable with the 7.7% found in an earlier NIOSH study of primarily underground coal miners in the western United States with 10 or more years' tenure.

However, the American Indian and Alaska Native miners were more likely than miners in the previous study to have pneumoconiosis, also known as black lung, including its most severe form. Specifically, 3% of American Indian and Alaska Native miners had black lung disease, compared with 1.7% of miners in the previous study. Similarly, 0.3% of American Indian and Alaska Native miners had the most severe form of black lung disease, compared with 0.1% of miners in the previous study. These findings highlight the importance of eliminating or controlling exposure to coal mine dust and identifying early signs of lung disease before it progresses to become severe, according to the researchers.

More information is available:

- NIOSH | Coal Workers' Health Surveillance Program
- NIOSH | Mining Topics

New Primer Aids Research to Practice

How can occupational safety and health (OSH) scientists help move promising, evidenced-informed interventions into sustained practice in organizations to improve worker safety, health, and well-being? NIOSH researchers and external partners applied this question to OSH interventions in a recent commentary on dissemination and implementation science, published in *Safety Science* .

Dissemination and implementation science studies the strategies, methods, and processes that help bring promising interventions into real-world settings, including workplaces, and the factors that support (or hinder) their long-term sustainability. To introduce OSH researchers and practitioners to the dissemination and implementation science field, NIOSH researchers and collaborators reviewed existing knowledge and evidence to develop a dissemination and implementation primer. The primer includes (1) an overview of the field, (2) a plain language explanation of key concepts, (3) commonly used theories, models, frameworks, and measures, (4) study designs and methods, and (5) future directions applied to OSH with an extensive list of resources for possible exploration. Authors used a similar approach in a previous study 1 to present dissemination and implementation science methods to advance *Total Worker Health* approaches.

Next steps include developing and testing practical tools that OSH researchers can use in their studies. These tools can be used to systematically develop and refine strategies that support disseminating, adopting, maintaining, and expanding interventions in community and workplace settings. Such efforts are intended to benefit all workers, especially those who are disproportionately affected by OSH hazards and risks.

More information is available:

- NIOSH Total Worker Health® Program
- Translation Research

Email Address

What's this?

Submit

Highlights

Respiratory Protection Week is September 6-9!

Respiratory Protection Week is an annual NIOSH event recognizing the importance of respiratory protection in the workplace. The event highlights available resources to help workers make educated decisions when selecting and wearing a respirator. Follow along on social media using the hashtag #RespiratorWeek. To learn more, visit their webpage.

Attend the 3rd International Symposium to Advance *Total Worker Health®* From Anywhere

Skip the travel and register to virtually attend the International Symposium to Advance *Total Worker Health*®. The event is October 11–14, and agendas for virtual and in-person attendance are available. Register before September 30!

Small Business Handbook Updated With Heat-related Illness Prevention Checklist

The NIOSH/OSHA Small Business Safety and Health Handbook was recently updated to include a Heat-related Illness Prevention Checklist. This is just one of many checklists included in the handbook for general industry workplaces. Checklists provide a starting point for identifying workplace hazards, indicating possible areas where employers can take action to make businesses safer and healthier for workers.

Register Today for the Next NIOSH Expanding Research Partnerships Webinar!

On September 14, 12:00–1:30 p.m. (ET), NIOSH is hosting the next Expanding Research Partnerships Series webinar. This installment will explore the impacts of technological change on work and well-being through the lens of occupational safety and health (OSH) systems. Featured speakers include Dr. Zeke McKinney (Program Director, HealthPartners Occupational and Environmental Medicine Residency) and Dr. Emily Haas NIOSH Research Health Scientist. Register now .

NIOSH and Partners Renew Alliance to Advance the Safety of Oil and Gas Workers

NIOSH, OSHA, the Bakken Basin Safety Consortium, and the State of North Dakota renewed an alliance in June to continue working together to keep oil and gas workers throughout the Bakken Basin safer. Through the alliance, information, guidance, and training resources on hazard recognition and prevention will continue to be shared with employers and workers. Additionally, efforts to implement a robust safety systems approach will continue, aiming to reduce the number of occupational exposures to physical and chemical hazards that can result in injuries and fatalities. For more information see the NIOSH Oil and Gas Extraction Sector Program web page or email nioshoilandgas@cdc.gov.





Photo courtesy of Oklahoma State University

NIOSH Congratulates

U.S. Public Health Service CMDR, Dr. Kenny Fent was awarded the Dr. John Granito Award for Excellence in Fire Leadership and Management Research during the International Fire Service Journal of Management and Leadership's Research Symposium. Dr. Fent received the award for his research on assessing dermal and inhalation exposures to combustion byproducts in firefighters, as well as for his comprehensive study of cardiovascular and carcinogenic risks during firefighting.

Photo right: Dr. Kenny Fent (left) receives his award from Dr. Gavin Horn from the Underwriters Laboratories, Fire Safety Research Institute.

Monthly Features

New Communication Products & Reports

FACE Reports

- Operator Crushed Between Forklift and Storage Rack—Washington 🔼 🖸 (Slideshow 🔼 🖸)
- Framer Falls 25 Feet From House Roof—Washington 🔼 🖸 (Slideshow 🔼 🖸)

Fire Fighter Fatality Investigation and Prevention Program Reports

- 54-Year-Old Interim Fire Captain Suffers Sudden Cardiac Event During Physical Ability Test—New Hampshire
- Firefighter Suffers Cardiac Arrest at Motor Vehicle Accident—Georgia
- 46-Year-Old Sergeant Suffers Fatal Cardiac Event at Station—Michigan
- Career Lieutenant Suffers a Sudden Cardiac Event During Fireground Survival Training and Dies 2 Days Later— Pennsylvania

Handbook

Small Business Safety and Health Handbook

Program Performance One-Pagers (PPOPs)

- Health Hazard Evaluation Program
- Transportation, Warehousing and Utilities Program

Safety Reports

Understanding Multi-gas Monitor Readings—The Importance of Knowing Your Equipment

Technical Report

Occupational Exposure Sampling for Engineered Nanomaterials

Workplace Solutions

Reducing Work-related Needlestick and Other Sharps Injuries Among Law Enforcement Officers

NIOSH Science Blog

Sign up to have notifications about new NIOSH Science Blogs delivered directly to your inbox!

- Strategies for Advancing Occupational Safety and Health: Examining Health Inequities
- Precarious Work, Job Stress, and Health-related Quality of Life
- NIOSH Education and Research Centers: Research
- Are Insurer Risk Control Services Effective?
- Risk-based Model to Resume Field Research and Public Health Service During the COVID-19 Pandemic
- Students Making Their Mark at NIOSH
- Pre-pandemic Mental Health and Well-being of Healthcare Workers
- NIOSH Miner Health Program Addresses Substance Use and Work

Federal Register Notice

Board of Scientific Counselors, National Institute for Occupational Safety and Health (BSC, NIOSH), National Firefighter Registry Subcommittee Meeting

Proposed Data Collection Submitted for Public Comment and Recommendations: Field Testing of Spanish-language Toolbox Talks for Spanish-speaking Construction Workers

The notice **T** was posted on July 22. Comments must be received by September 20.

Advisory Board on Radiation and Worker Health (ABRWH), Subcommittee for Procedures Reviews (SPR), National Institute for Occupational Safety and Health (NIOSH)

The notice \(\text{\tint}\text{\tint{\texi}\til\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{

Board of Scientific Counselors, National Institute for Occupational Safety and Health (BSC, NIOSH) Meeting

The notice 🔀 was posted on August 19. Comments must be received by September 27. The meeting will be held on October 4.

Proposed Data Collection Submitted for Public Comment and Recommendations: Assessing Fatigue and Fatigue Management in U.S. Onshore Oil and Gas Extraction

The notice **'** was posted on August 3. Comments must be received by October 3.

Proposed Data Collection Submitted for Public Comment and Recommendations: Energy Employees Occupational Illness Compensation Program Act of 2000 (EEOICPA) Special Exposure Cohort Petitions

The notice 🔀 was posted on August 3. Comments must be received by October 3.

NORA

Save the Date: NORA Respiratory Health Cross-sector to Host Webinar

The NORA Respiratory Health Cross-sector will host "Opportunities and Tools to Investigate Occupational Risk Factors for COPD" on September 20–21, 11:00 a.m.–3:30 p.m. (ET). This free webinar will be a unique chance to learn about work-related COPD and opportunities for research. Fifteen world-class speakers will be presenting, and free medical and nursing continuing education (CE) credits are available. Find more information and register.

News from Our Partners

Characterizing Injuries Among Kentucky Distillery Workers

The Kentucky Occupational Safety and Health Surveillance Program (KOSHS) and the Central Appalachian Regional Education and Research Center (ERC) partnered on a study 1 to identify the most frequent type, characteristics, and cause of work-related injuries among Kentucky distillery workers. They found strains or tears, lacerations, and contusions the most common injuries during 2010–2019. KOSHS is a NIOSH State-based Occupational Safety and Health Surveillance Program, and the Central Appalachian Regional ERC is one of 18 centers funded by NIOSH to provide interdisciplinary training for the next generation of occupational safety and health practitioners and researchers.

Conferences, Meetings, Webinars, & Events

This page provides a list of publicly available occupational safety and health-related conferences, meetings, webinars, and events sponsored by NIOSH as well as other government agencies, and nongovernment agencies, such as universities, professional societies, and organizations.

Follow NIOSH



Last Reviewed: July 1, 2022