# 1970s

### 1970

- March 10, 1970, the first Health
   Hazard Evaluation is conducted
   at the Sager Glove Corporation in
   Murray, Kentucky, where researchers
   study asbestos exposures.
- NIOSH begins to certify respirators.
- December 29, 1970, the Occupational Safety and Health Act, creating NIOSH, is signed by President Richard Nixon.



### 1971

- NIOSH begins in May 1971.
- First toxic substances list is published.

### 1972

• The first Criteria Document is published.
Criteria
Documents are used for developing comprehensive

workplace safety and health

standards.

 NIOSH supports training project grants that address the burden of OSH in the United States by training the next generation of OSH leaders.



Science at work for people at work

NIOSH is transferred into the Centers for Disease Control, which later becomes the Centers for Disease Control and Prevention (CDC).

## 1974

1973

- NIOSH and OSHA develop the Standards Completion Program, which includes 387 substance-specific draft standards. This leads to the NIOSH/OSHA Occupational Health Guidelines for Chemical Hazards.
- The NIOSH Manual of Analytical Methods (NMAM) is first published. The manual is a collection of methods for sampling and analyzing contaminants in workplace air, on surfaces, and in the blood and urine of workers.

### 1975

**50 YEARS OF** 

• First Current Intelligence Bulletins published.

OSH®

### 1977

- First nine Education and Research Centers (ERCs) awarded (Harvard University, University of Cincinnati, Johns Hopkins University, University of Texas Houston, University of Minnesota, University of North Carolina, University of Washington, University of Illinois at Chicago, and University of Arizona). ERCs help prepare the future OSH workforce to respond to new challenges posed by the changing nature of work.
- Courts affirm authority to enter workplaces, look at medical records, and release research findings.
- Occupational Diseases: A Guide to Their Recognition informs about how to detect workplace diseases.

### 1978

 The Pocket Guide to Chemical Hazards is first published. The guide gives information for hundreds of chemicals/classes, helping users recognize and control chemical hazards in the workplace.

1973

**1974** 

**The 8 Locations of NIOSH** 

Pittsburgh, PA

Denver, CO

Denver, CO

Cincinnati, OH

Morgantown, WV

Atlanta, GA

At left are the current eight locations of NIOSH facilities.





Anchorage, AK



# **1980**s

### 1980

• First state-based workplace health cooperative agreements are developed.

### 1982

• The Fatality Assessment and Control Evaluation (FACE) program begins. Investigations conducted through the FACE program FACE help identify factors that contribute to fatal injuries. This information is used to develop comprehensive recommendations for preventing similar deaths. NIOSH goes on to publish the first three FACE reports the same year.

### 1984

• First meeting of the NIOSH **Board of Scientific Counselors** convenes. The committee gives advice on NIOSH's workplace safety and health research and prevention programs.

### 1985

- On the 15th anniversary of the OSH Act, the Office of Technology Assessment issues a report concluding that the Act helped to reduce exposures to vinyl chloride, cotton dust, and lead.
- NIOSH publishes a research agenda focusing on the top 10 most important topics for workplace health and safety at the time. This is considered to be the foundation of the National **Occupational Research Agenda** (NORA).

### 1986

- Proposed National Strategies for the Prevention of Leading Work-Related Diseases and Injuries are published, focusing on actions to prevent occupational musculoskeletal injuries.
- NIOSH, OSHA, and EPA establish the ONE Committee to coordinate the agencies' research efforts.
- · Collaboration with ILO International Programme on Chemical Safety establishes hazard communication cards to give essential safety and health information in a clear and concise way to workers and OSH professionals.

### 1987

- Sentinel Event Notification System for Occupational Risk (SENSOR) program established. The program would go on to support changes in federal regulations to reduce pesticide-related health risks, improvements in training and certification for pesticide applicators, safer pest control in schools, and improved labels on pesticide products.
- NIOSH publishes landmark studies showing hazards of exposure to asbestoscontaminated vermiculite and lung cancer mortality from Libby, Montana.
- Adult Blood Lead Epidemiology and Surveillance (ABLES) launched to help lower the proportion of persons who have elevated blood lead levels from work exposure.

### 1989

• The Alice Hamilton Award for **Excellence in Science in Occupational** Safety and Health

recognizes the scientific excellence of technical and instructional materials by NIOSH scientists and engineers in the areas of biological science, engineering and physical science, human studies, and educational materials.

• State FACE program established.



1985

# The 10 Sectors of NORA



Agriculture,

Forestry and

Fishing

1983



Construction







1986





Mining Healthcare Manufacturing







**Public** Safety



Services

and Social

Assistance

Wholesale and Retail



Transportation, Warehousing, and Utilities

The National Occupational Research Agenda (NORA) stimulates research and improved

workplace practices.





50 45 **Coal Mining Fatalities** 40 per 10,000 Workers, 1900-2020 35 30 25 20 15 10 5 **~•** 2020 0 Source: U.S. Department of Labor Coal mining fatalities have declined from nearly 48 per 10,000 workers in 1907 to fewer than 1 per 10,000 workers in 2020. 1993 1994 **1990s** 

### 1990

- Centers for Agricultural Disease and Injury Research, Education, and Prevention are established. The centers conduct research, education, and prevention projects to address the nation's pressing agricultural, forestry, and fishing health and safety problems in their geographic regions.
- National Center for Construction Safety and Health Research and Translation established.

### 1991

- Current Intelligence Bulletin,
   Environmental Tobacco Smoke
   in the Workplace:
   Lung Cancer and
   Other Health Effects
   published, explaining
   effects of environmental
   tobacco smoke.
- First Work-Related Lung Disease (WoRLD) Surveillance Report published (in 2008 it became an online surveillance system).

### 1993

 Preventing Homicide in the Workplace Alert released.



### 1994

- Certified Equipment List, a searchable database of all NIOSHapproved respirators, published.
- NIOSH Lifting Equation (NLE) published. It has contributed to improved risk assessments for manual-lifting jobs. In the late 2010s, the NLE was converted to an app.

### 1996

 Mine safety research authority is transferred to NIOSH following the elimination of the U.S. Bureau of Mines.



- Engineering Control Guidelines for Hot Mix Asphalt Pavers is published. This represents a new paradigm for conducting research by developing a partnership between labor, industry, and government.
- Preventing Allergic Reactions to Natural Rubber Latex in the Workplace Alert is published, addressing reports of workers' allergic reactions to latex.
- NIOSH publishes "The Yellow Book," or Musculoskeletal Disorders and Workplace Factors: A Critical Review of Epidemiologic Evidence for Work-Related Musculoskeletal Disorders of the Neck, Upper Extremity, and Low Back.

### 1998

• Fire Fighter
Fatality
Investigation
and
Prevention
Program established.

### 1999

- NIOSH issues recommendations for preventing job-related stress.
- NIOSH issues recommendations for preventing work-related needlestick injuries.



# **2000**5

#### 2001

 NIOSH provides technical assistance for responder safety and health in the World Trade Center rescue and recovery.



- NIOSH en Español website launches.
- NIOSH responds to Anthrax attacks.
- NIOSH creates a coordinated emergency preparedness and response program to improve its ability to respond to future emergencies and disasters.
- NIOSH designates the role of compensation analysis and support from HHS in response to the Energy Employees Occupational Illness Compensation Program Act of 2000.

### 2002

NIOSH scientists publish their research findings about a new lung disease found in workers at a series of microwave-popcorn plants (Identification of Flavoring-Related Lung Disease), giving comprehensive recommendations for preventing similar deaths.

### 2003

- **eNews**, the NIOSH monthly newsletter, debuts.
- Steps to a Healthier U.S. Workforce Initiative is launched. This later became the Total Worker Health (TWH) program.

### 2004

- Research to Practice (r2p) initiative is established to speed the adoption of new research findings into practice to benefit workers.
- Nanotechnology Research Center established.

### 2005

- NIOSH gives technical and humanitarian help after Hurricane Katrina.
- "Hot spots" of rapidly progressive coal workers' Black Lung in the U.S. are identified.

### 2006

- NIOSH funds Total Worker Health Centers of Excellence.
- After Sago mine disaster, the MINER Act calls for NIOSH to conduct mining research.

### 2007

• NIOSH Science Blog debuts.

### 2008

NIOSH-developed Coal
 Dust Explosibility Meter
 released to allow mines to
 measure and remediate areas
 that need to be treated with
 rock dust to cut down on their explosibility.

### 2009

- A new sizing structure for fall arrest harnesses to better fit the diverse sizes and shapes of construction workers is released.
- NIOSH publishes Approaches to Safe Nanotechnology, the first risk management guidance document on safe handling of engineered nanomaterials to incorporate information about hazard, exposure, and controls.
- Oversight of the World Trade Center Health Registry is moved to NIOSH.
- NIOSH responds to 2009 H1N1 influenza pandemic.
- NIOSH jumps into social media and joins Twitter.

2004

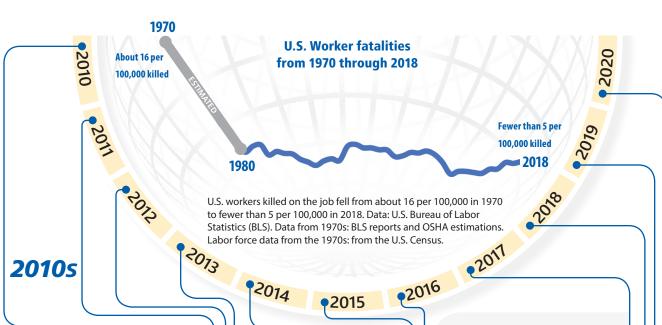
2005





2008

NIOSH often sends staff to respond to disasters and outbreaks. Pictured are the World Trade Center (2001), Hurricane Katrina (2005), the Deepwater Horizon oil spill (2010), and COVID-19 (2020–2021).



# 2010

- NIOSH gives technical assistance for responder safety and health in the **Deepwater Horizon** oil spill containment and cleanup.
- Center for Motor Vehicle Safety established.
- Prevention through Design (PtD): Plan for the National Initiative published. PtD was noted as the best way to prevent occupational injuries and illnesses.
- New occupational health hazard, Indium Lung Disease, identified.

### 2011

- James Zadroga 9/11 Health and Compensation Act of 2010 signed into law 1/02/2011, creating the World Trade Center Health Program.
- Emergency Responder Health Monitoring and Surveillance (ERHMS<sup>TM</sup>) framework published to help organizations monitor the health and safety of emergency responders.
- NIOSH research and assistance enables ILO standards for using digital chest radiographs in worker screening programs.

### 2012

 Start of the National Falls Prevention Campaign in Construction.

### 2013

- First mobile application released, Ladder Safety App.
- Occupational Exposure to Carbon Nanotubes and Nanofibers CIB released.
- Center for Workers' Compensation Studies begins.

### 2014

- NIOSH staff respond to the Ebola epidemic.
- Safe Skilled Ready Workforce program launches.
- Center for Direct Reading and Sensor Technologies created.

# 2015

- National Center for Productive Aging and Work created.
- Center for Maritime Safety and Health Studies established.

### 2016

- "Emission of Particulate Matter from a Desktop Three-Dimensional (3D) Printer" publishes.
- Criteria Document on diacetyl and 2,3-pentanedione sets a diacetyl recommended exposure limit.

### 2017

- Award-winning video highlights NIOSH research with the ambulance industry to increase ambulance safety through standards.
- Center for Occupational Robotics Research established.

#### 2018

- Chemical, Biological, Radiological, and Nuclear (CBRN) Respiratory Protection Handbook to guide respirator selection and use is published.
- New tools developed to help identify dampness/mold in schools and buildings.

### 2019

- Commercial Fishing Occupational Safety Research and Training Program established.
- Center for Work and Fatigue Research established.
- National robotics research funded through partnerships.

### 2020

- NIOSH responds to the **COVID-19 pandemic**. It is the longest response activation in NIOSH history.
- National Firefighter Registry aids studies of possible links between firefighter exposures and cancer.