NIOSH BIBLIOGRAPHY OF COMMUNICATION AND RESEARCH PRODUCTS | 2016

DEPARTMENT OF HEALTH AND HUMAN SERVICES
Centers for Disease Control and Prevention
National Institute for Occupational Safety and Health

Cover: The photographs on the cover of the *NIOSH Bibliography of Communication and Research Products 2016* represent the variety of people who benefit from the work of the National Institute for Occupational Safety and Health. Workers and workplace issues depicted in the photographs are as follows, from below left to top right:

1. Office workers face risks from such sources as improper ergonomics, stress, or work-related bullying.
2. Agriculture workers face risks such as excessive heat or cold, dangerous equipment, and exposure to hazardous chemicals.
3. Industrial workers, such as this pipeline welder, face many on-the-job risks related to their work.
4. The health-care field faces risks such as needle-sticks, exposure to communicable diseases, stress, and exposure to hazardous substances.

NIOSH

Bibliography of Communication and Research Products

2016

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TTY: 1-888-232-6348
CDC INFO: www.cdc.gov/info

or visit the NIOSH website at www.cdc.gov/niosh.

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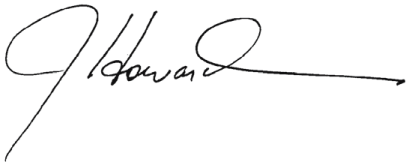
DHHS (NIOSH) Publication No. 2017−140

April 2017

Foreword

We strive for excellence in our scientific endeavors and in the publications of our work. This bibliography is our effort to provide a compilation of the best possible scientific information to maintain and improve safety and health in the workplace. I believe that this bibliography reflects and reinforces the NIOSH values of relevance, quality, and impact and demonstrates the consistent commitment of NIOSH and our partners to all workers as they face challenges to be safe and healthy while contributing to our nation's productivity. Please explore these products further and distribute them freely in workplaces and to our colleagues in the occupational health and safety community.



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Contents

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Introduction

The Year in NIOSH Communication and Action

Faced with persistent and emerging health risks in 2016, the National Institute for Occupational Safety and Health (NIOSH) continued its mission to develop and transfer into practice new knowledge about occupational safety and health. Challenges NIOSH faced in 2016 included coal worker's pneumoconiosis, or black lung disease. Black lung disease cases reached historic lows in the 1990s after the Coal Mine Health and Safety Act became law in 1969 and was amended in 1977. Recent years, however, have seen rising numbers of current and former coal miners diagnosed with the disease. Other diseases became emerging risks for workers in 2016, including Zika virus and the debilitating lung disease obliterative bronchiolitis, which may be a risk for people who work in the coffee processing industry. Throughout the year, NIOSH translated these and other research priorities into informative communication and research products, promoting occupational safety and health for all workers.

Black Lung Disease Response

After years of decline, cases of black lung disease increased dramatically in the past 2 years, especially among coal workers in central Appalachia. NIOSH investigators described a cluster of cases of the most-severe form of the disease after a radiologist in eastern Kentucky reported 60 cases occurring from January 2015 to August 2016. In mid-December 2016, NIOSH published the results of these investigations in a *Morbidity and Mortality Weekly Report* from the Centers for Disease Control and Prevention (CDC), "Resurgence of Progressive Massive Fibrosis in Coal Miners—Eastern Kentucky, 2016" (see Page 4). The report's findings underscore the ongoing need for effective dust control, educational outreach, and surveillance among coal mine workers.

Zika Virus Response

On January 15, 2016, the CDC issued a health advisory about the risk of Zika virus in light of reports of severe birth defects, including incomplete brain development, among infants of mothers infected during pregnancy in the Americas. Previously, this mosquito-borne virus, transmitted by *Aedes* species mosquitoes, had surfaced in Africa, Asia, and the Pacific Islands.

To protect workers from the growing threat of Zika virus, NIOSH scientists joined forces with the U.S. Occupational Safety and Health Administration (OSHA) and other leading public health organizations to investigate the risk and develop guidance for the protection of workers. Several key communications resources stemmed from the NIOSH collaborations:

- "OSHA/NIOSH Interim Guidance for Protecting Workers from Occupational Exposure to Zika Virus"
- "NIOSH Zika: Protecting Outdoor Workers"
- "NIOSH Zika: Protecting U.S. Businesses and Business Travelers"
- "NIOSH Zika: Protecting Healthcare and Laboratory Workers"
- "Reminder about Preventing Sharps Injuries and the Zika Virus"
- "Preliminary Findings from an Investigation of Zika Virus Infection in a Patient with No Known Risk Factors—Utah, 2016"
- "NIOSH Aircrew Safety & Health"

Obliterative Bronchiolitis Response

Through the NIOSH Health Hazard Evaluation (HHE) Program, the Institute responded to requests to investigate a possible link between coffee processing and the irreversible lung disease obliterative bronchiolitis among workers in coffee-processing facilities. Previous studies associated this serious lung disease with flavored coffee and other food additives such as the butter flavoring added to microwave popcorn, giving rise to the alternative "popcorn lung" designation for the disease. In 2016, the HHE program also found that coffee workers who grind and roast unflavored coffee are more likely to be diagnosed with obliterative bronchiolitis than workers who don't work in areas where unflavored coffee is processed.

Current NIOSH recommendations include air sampling to detect and measure chemical concentrations, and a recommended exposure limit of 5 parts per billion (ppb) for diacetyl and 9.3 ppb for 2,3-pentanedione, as a time-weighted average for up to 8 hours per day during a 40-hour work week. While its investigations of coffee-processing facilities continue, NIOSH has released several communication and research products to inform and protect employers and workers as scientific knowledge about this issue evolves:

- *Criteria for a Recommended Standard: Occupational Exposure to Diacetyl And 2,3-Pentanedione* (Page 54)
- "Interim Guidelines: Flavorings-Related Lung Disease"
- "NIOSH Science Blog: Coffee Workers at Risk for Lung Disease"

Structure of NIOSH

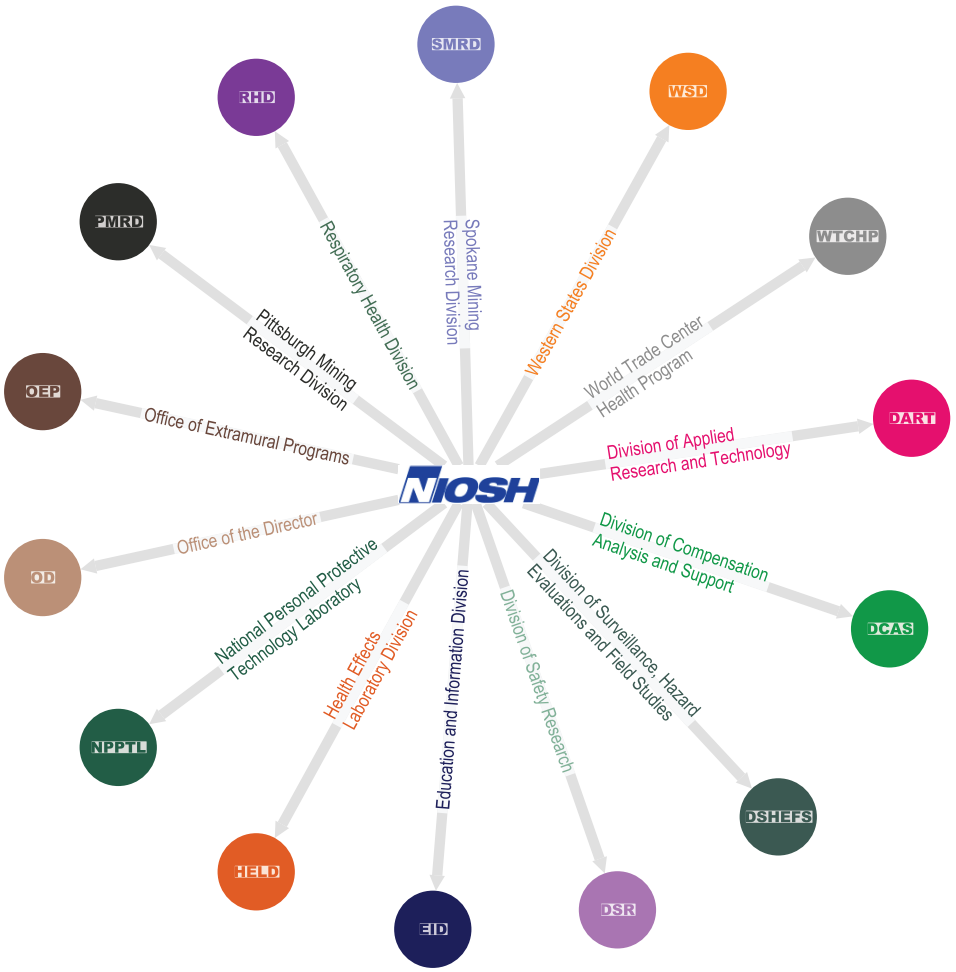
The organizational structure at NIOSH comprises 14 divisions, laboratories, and offices (DLOs), described in Figure 1. With headquarters in Atlanta, Georgia, and Washington, D.C., NIOSH maintains research laboratories and offices in six locations:

- Anchorage, Alaska
- Cincinnati, Ohio
- Denver, Colorado
- Morgantown, West Virginia
- Pittsburgh, Pennsylvania
- Spokane, Washington

In these laboratories, NIOSH scientists bring the most-advanced technologies and methods to current issues in occupational safety and health research. NIOSH scientists in Pittsburgh, for example, test mine-safety interventions in a four-mile, underground test coal mine that, in a safe and controlled environment, simulates a working coal mine. In Morgantown, NIOSH scientists use the NIOSH Virtual Reality Laboratory to study how to prevent falls in construction and other industries. Using computer technology, this laboratory creates for users a three-dimensional, safe, virtual experience, such as walking on elevated scaffolding at a construction site.

NIOSH scientists also go to worksites when called to the field through the NIOSH Health Hazard Evaluation Program. In 2016, NIOSH scientists worked with partners nationwide to evaluate the causes of work-related illness, injury, and death in diverse industries, including firefighting, mining, construction, and oil and gas extraction.

Figure 1. NIOSH Divisions, Laboratories, and Offices



Division of Applied Research and Technology
Focuses on preventing occupational illness and injury through exposure sciences, interventions and controls, and human and social factors.

Division of Compensation Analysis and Support
Assists claimants under the Energy Employees Occupational Illness Compensation Program Act of 2000.

Division of Safety Research
Researches occupational traumatic injury to reduce work-related injuries and fatalities across all industry sectors.

Division of Surveillance, Hazard Evaluations and Field Studies
Leads a focused program of surveillance, worksite evaluations, and research aimed at detecting and preventing work-related illness.

Education and Information Division
Develops and transfers information and provides recommendations to foster prevention of occupational injuries and diseases.

Health Effects Laboratory Division
Conducts basic and applied laboratory research to understand the causes of occupational disease and injury.

National Personal Protective Technology Laboratory
Leads a comprehensive program to prevent disease, injury, and death among workers who rely on personal protective equipment.

Office of the Director
Leads the Institute's mission in conducting research and disseminating guidance to prevent work-related illness, injury, disability, and death.

Office of Extramural Programs
Directs the extramural research and training program portfolios.

Pittsburgh Mining Research Division
Addresses most mining sectors, focusing on the safety and health hazards of mining, and preventing disasters.

Respiratory Health Division
Leads research program to prevent work-related respiratory illness, injury, and death.

Spokane Mining Research Division
Addresses most mining sectors, with major program focus on metal and nonmetal mining

Western States Division
Leads efforts to prevent work-related illness, injury, and death among workers in the Western states, who may face unique hazards and issues.

World Trade Center Health Program
Provides medical monitoring and treatment for responders to the World Trade Center and related sites in New York City, the Pentagon, and Shanksville, Pennsylvania, and to survivors in New York City's disaster area.

Total Worker Health® Centers of Excellence

Through the Office of Extramural Programs, NIOSH also supports occupational safety and health scientists at other leading institutions. New in 2016 were six Centers of Excellence in the NIOSH Total Worker Health® (TWH) Program. Through multidisciplinary research, intervention, outreach and education, and other activities, these centers focus on increasing the overall safety and health of all U.S. workers. The centers are at six leading universities throughout the country:

- Colorado School of Public Health, University of Colorado, CU Anschutz—Denver, Colorado
- University of Connecticut/University of Massachusetts—Lowell, Massachusetts
- Harvard University—Boston, Massachusetts
- University of Iowa—Iowa City, Iowa
- Oregon Health and Science University—Portland, Oregon
- University of Illinois-Chicago—Chicago, Illinois

Along with establishing the Centers of Excellence, the NIOSH TWH® Program published the workbook "Fundamentals of Total Worker Health® Approaches: Essential Elements for Advancing Worker Safety, Health, and Well-Being." Designed to help workplaces build their own TWH® programs, the 2016 workbook presents the five defining elements of the comprehensive TWH approach to occupational safety and health:

Five Defining Elements of Total Worker Health®

1. Demonstrate leadership commitment to worker safety and health at all levels of the organization.
2. Design work to eliminate or reduce safety and health hazards and promote worker well-being.
3. Promote and support worker engagement throughout program design and implementation.
4. Ensure confidentiality and privacy of workers.
5. Integrate relevant systems to advance worker well-being.

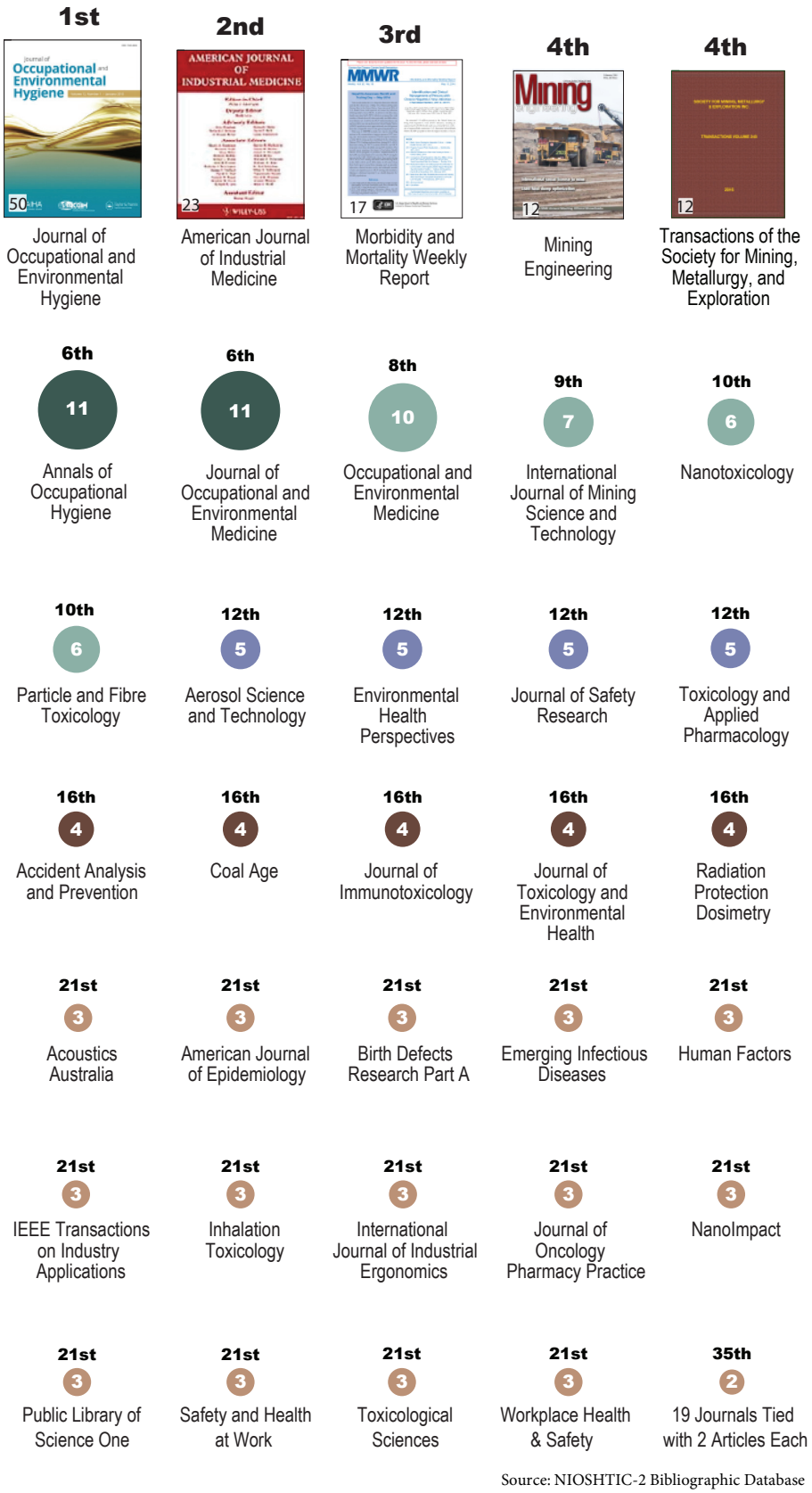
20 Years of Occupational Safety and Health Research: NORA and HELD

In 2016, NIOSH joined with federal and private partners to commemorate two noteworthy anniversaries. The year marked the 20th anniversary of the National Occupational Research Agenda (NORA), a partnership between the public and private sectors that has inspired innovative research in occupational safety and health. In another milestone, NIOSH celebrated the 20th anniversary of the unveiling of its advanced laboratories in Morgantown, West Virginia. With this new facility in 1996, NIOSH expanded its research portfolio to include the Health Effects Laboratory Division, which studies early and subtle physiological changes that can help predict later disease.

Diverse Communications Program

Throughout the year, NIOSH communication and research products reached workers and employees through diverse channels that included reports, brochures, alerts, videos, newsletters, press releases, and 392 peer-reviewed articles in 162 peer-reviewed professional journals. As social media's role in the news expands, the Institute also maintained a vigorous social media presence through its NIOSH Science Blog, Facebook, Twitter, Instagram, and growing number of Wikipedia pages. Together, NIOSH communication and research products are central to the Institute's mission to translate into practice knowledge about occupational safety and health. Figure 2 lists the top 35 journals that published NIOSH research in 2016.

Figure 2. Top 35 Journals Publishing NIOSH Research—2016, by Rank



Source: NIOSHTIC-2 Bibliographic Database

Communication and Research Products by NORA Sector

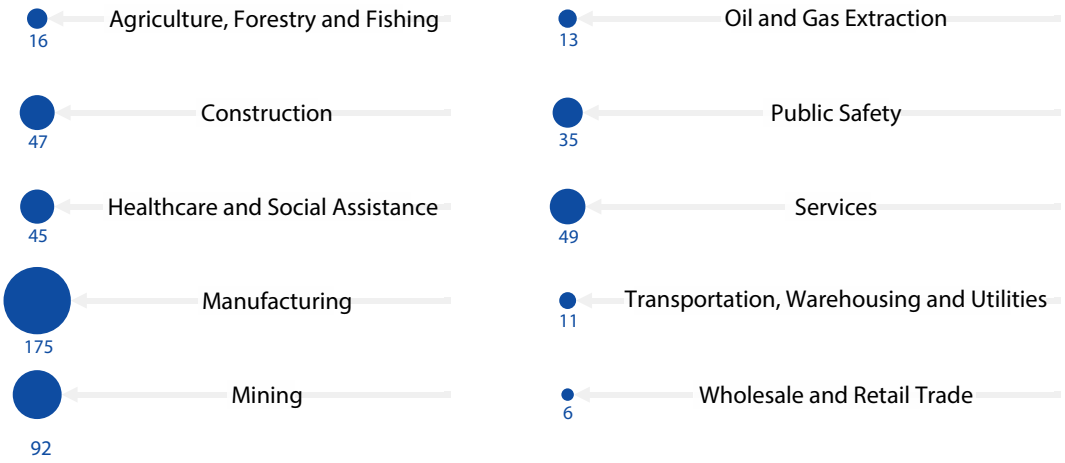
On October 1, 2016, the third decade of NORA began. With NORA as a guide, the NIOSH Program Portfolio comprises 10 sector programs that represent specific industries and 7 health and safety cross-sector programs organized around health outcomes that cut across industries. Unlike workplace-specific risks such as coal dust exposure, which primarily affects coal mine workers, cross-sector programs comprise work-related risks that are prevalent across diverse industries. Exposure to cigarette smoke, loud noises, and hazardous chemicals are some examples of cross-sector risks. Each program provides leadership for national research and prevention efforts to eliminate occupational illnesses, injuries, and deaths among workers. As NORA began its third decade, NIOSH research projects continued to adhere to NORA's three key priorities:

NORA Key Research Priorities

1. The number of workers at risk for a particular injury or illness.
2. The chance that new data or approaches can make a difference.
3. The seriousness of a hazard.

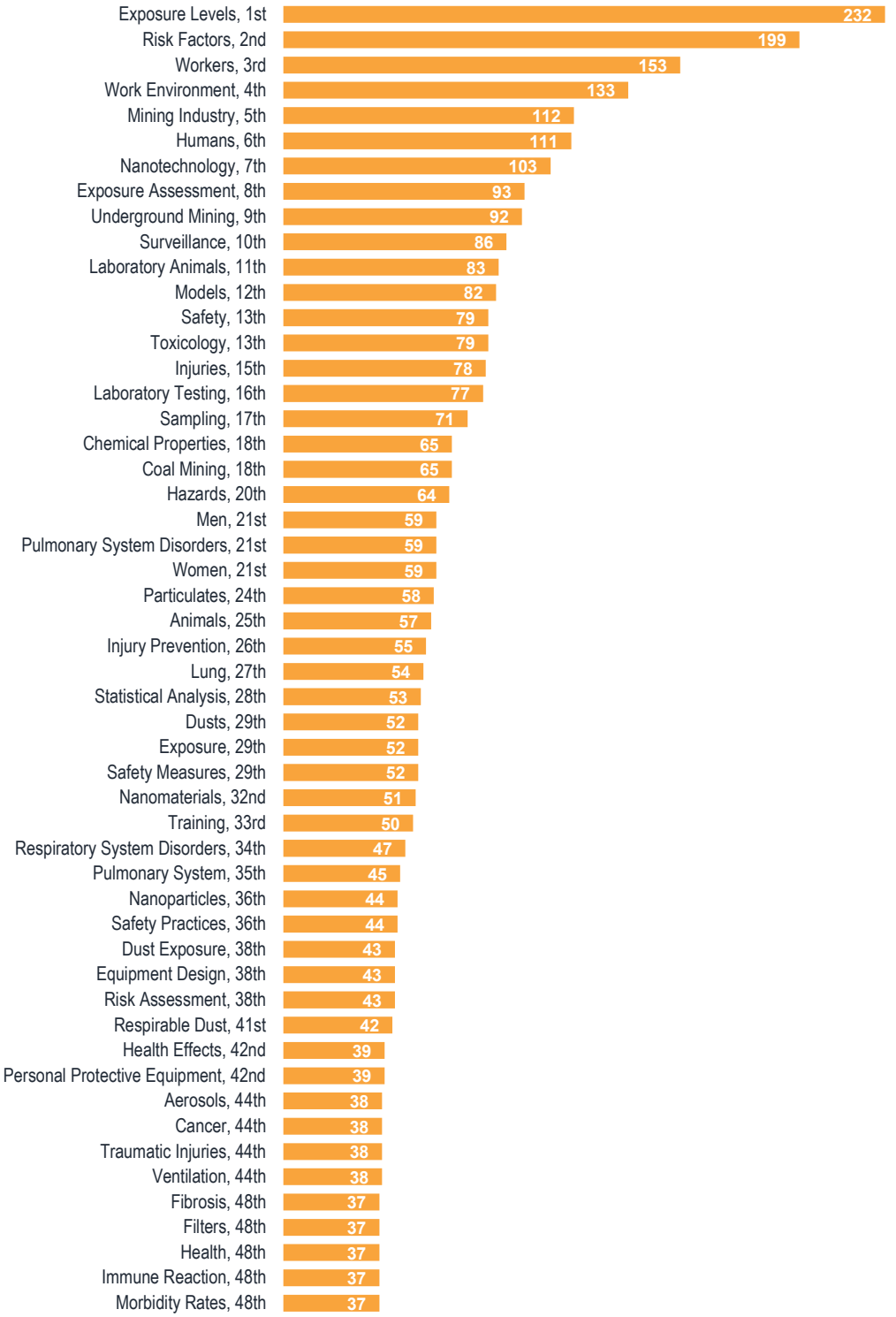
In 2016, these priorities led to communication and research products that advanced workplace safety and health across each of NORA's 17 programs. Figure 3 lists the total number of NIOSH communication and research products published in 2016 by NORA sectors.

Figure 3. Number of NIOSH products by NORA sector, 2016



Source: NIOSHTIC-2 Bibliographic Database

Figure 4. Ranked top 50 keywords in NIOSH products



Source: NIOSHTIC-2 Bibliographic Database

Figure 4 shows the top 50 keywords used in NIOSH products for 2016 according to their ranking. The numbers in the circles show how many products used each keyword. More than 50 are shown because of ranking ties.

Communication and Research Products Highlights

Throughout 2016, NIOSH translated scientific findings into communication and research products that ensured transparency and made scientific information understandable and usable to workers and employers. There are too many products to highlight each one, but each product helped to promote occupational safety and health by expanding our understanding.

Program Fact Sheets

Debuting in May 2016 were the NIOSH Program Performance One-Pagers, or PPOPs. These concise and informative fact sheets describe each of the Institute's research programs in an easy-to-understand format by answering four fundamental questions:

1. What are our priorities?
2. What do we do?
3. What have we accomplished?
4. What is next?

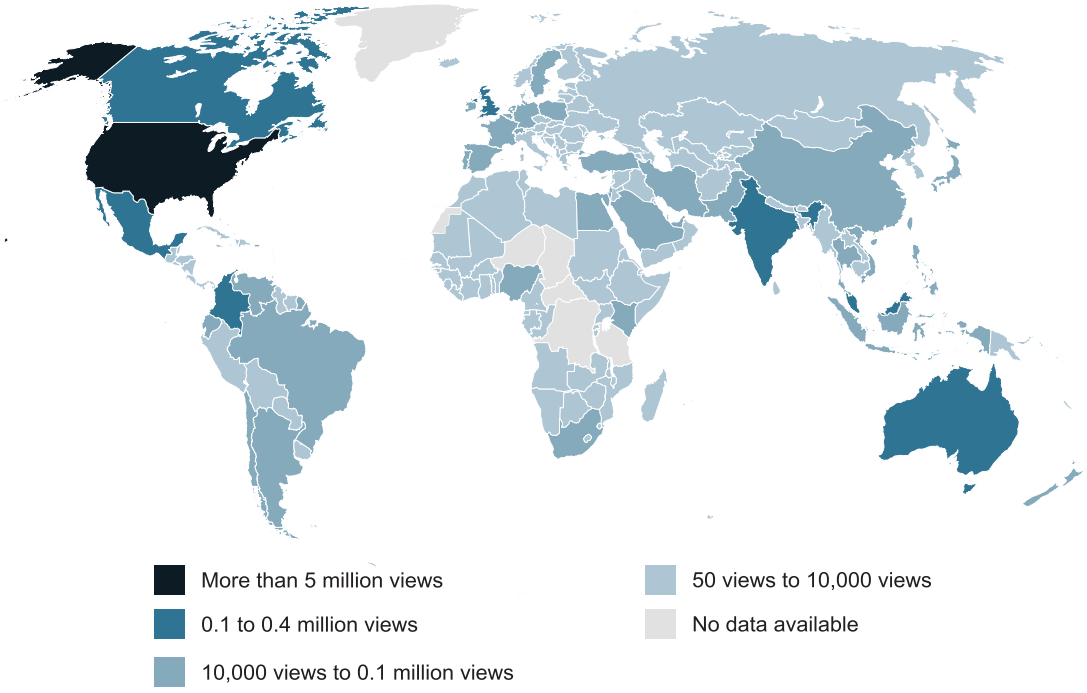
By the end of the year, more than 40 PPOPs on NIOSH research programs from Agriculture, Forestry, and Fishing, to Wholesale and Retail Trade—and everything in between—were published on the NIOSH website.

Global Health

Although the PPOPs focus on U.S. workers, NIOSH also collaborates with international partners to promote worker safety and health worldwide. Another significant publication in May, "Improving Workers' Health across the Globe," represented a collaboration between NIOSH, the Finnish Institute of Occupational Health, and the World Health Organization Collaborating Centers for Occupational Health. A collection of worldwide success stories in occupational safety and health, the booklet describes efforts to eliminate silicosis in Brazil and Chile, the safe revitalization of the nutmeg industry in Granada, and other programs.

NIOSH also maintains an international presence via its CDC-linked website. In 2016 alone, viewer traffic to CDC webpages, including NIOSH, totaled more than 2 million views in 200 countries. Figure 5 shows the geographical distribution of these webpage views in 2016.

Figure 5. NIOSH web views, 2016



Source: NIOSH web analytics

NIOSH Bibliography of Communication and Research Products 2016

The *NIOSH Bibliography of Communication and Research Products 2016* lists the wide range of publications from the past year, organized by type and author. The PDF version has hyperlinks, in blue type, for each document.

As we remember the occupational safety and health advances of 2016, it is natural to look forward to the coming year. If the following bibliography is an indication, we can rest assured that 2017 will be another year of scientifically sound research translated into clear and informative communication and research products focused on occupational safety and health

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Journal Articles

NOTE: Electronic forms of the *NIOSH Bibliography of Communication and Research Products* link to the online NIOSHTIC-2 Bibliographic Database. Clicking on a page number takes you to the product reference in this guide. Blue type shows NIOSHTIC-2 links.

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NIOSHTIC-2: 20048081

Alarcon WA [2016]. Elevated blood lead levels among employed adults—United States, 1994–2013. MMWR Sum Notifiable Noninfect Cond Dis Outbreaks US *63*(55):59–65.
NIOSHTIC-2: 20048785 | NORA: Manufacturing

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NIOSHTIC-2: 20047061 | NORA: Mining

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NIOSHTIC-2: 20049256

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NIOSHTIC-2: 20049026

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