NIOSH BIBLIOGRAPHY OF COMMUNICATION AND RESEARCH PRODUCTS | 2015

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 2015* represent the variety of people who benefit from the work of the National Institute for Occupational Safety and Health. Workers, researchers, and workplace issues depicted in the photographs are as follows:

Clockwise, from top right: (1) a teenager works in the retail sector; (2) a Hispanic worker wears personal protective equipment while nailing shingles on a roof; (3) a carpenter wears hearing protection; (4) a worker represents research in material handling in retail, grocery, and warehouse industries; and (5) commercial longline fishermen prepare bait before the halibut season in Homer, Alaska.

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NIOSH

Bibliography of Communication and Research Products

2015

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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.

John Howard, M.D.
Director, National Institute for
Occupational Safety and Health

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Introduction

This word cloud was produced from the titles of products in the *NIOSH Bibliography of Communication and Research Products 2015*. Larger type indicates the words used most often in publication titles. Smaller type shows words used less frequently. Source: NIOSHTIC-2 Bibliographic Database; word cloud produced using Tagul, http://tagul.com/.

Last year, as the National Institute for Occupational Safety and Health (NIOSH) prepared to mark its upcoming 45th anniversary in 2016, it continued to play a vital role in protecting the safety and health of the millions of workers in the United States. Of course, in many ways, workplace risks today are different from 1971, the year after the Occupational Safety and Health Act created NIOSH. Then, our manufacturing-based economy relied upon local workers with nine-to-five jobs, employer-paid insurance, leave, and retirement benefits. Today, our primarily service-based, global economy relies upon a diverse workforce faced with safety and health concerns that our working forebears could not have imagined. From nanoparticles and robots to emergency preparedness and stress from competing work and family demands, NIOSH addresses this panoply of new issues. At the same time, the Institute continues the research necessary for further progress in controlling persistent hazards from earlier generations. These persistent hazards include traumatic injury, acute and chronic chemical exposures, and respiratory diseases like asbestosis, silicosis, and coal workers' pneumoconiosis, also called black lung disease.

What has not changed is the NIOSH effort to prevent workplace hazards through research. Through intramural research in its laboratories, extramural research in academic institutions, and fieldwork nationwide, NIOSH studies the causes of work-related injuries, illnesses, and death, with the goal of preventing future occurrences. Investigators conduct research in the eight NIOSH sites located in Anchorage, Alaska; Atlanta, Georgia; Cincinnati, Ohio; Denver, Colorado; Morgantown, West Virginia; Pittsburgh, Pennsylvania; Spokane, Washington; and Washington, D.C. Fieldwork, however, takes them wherever workers need help, from the oil and gas well sites in the Great Plains, to the coal mines of Appalachia, and to post-fire scenes throughout the country.

To share research results and recommendations in a timely manner with the occupational safety and health community, NIOSH researchers publish their findings in peer-reviewed journals, NIOSH publications, and reports. These reports include NIOSH Control Technology Reports, Fire Fighter Fatality Investigation and Prevention Reports, Health Hazard Evaluation Reports, and Fatality Assessment and Control Evaluation Reports. In 2015, NIOSH researchers worked closely with state and local organizations to investigate and publicize findings in 92 reports from 30 states.

Together, NIOSH communication and research products are central to the Institute's mission to reduce the risk of injury, illness, and death. The culmination of countless hours of innovative research each year leads to products that explain new scientific knowledge and give practical solutions that both workers and employers can use to protect their safety and health. In 2015, NIOSH-supported research led to 726 products ranging from workplace solutions to hazard alerts to peer-reviewed papers, nearly 400 of which appeared in 200 esteemed, professional journals. Table I lists the top 10 journals that published NIOSH research in 2015.

Table I. Top 10 Journals Publishing NIOSH Research—2015

Rank	Journal	No. of Articles
1	Journal of Occupational and Environmental Hygiene	42
2	Morbidity and Mortality Weekly Report	29
3	American Journal of Industrial Medicine	18
4	Annals of Occupational Hygiene	12
5	Journal of Occupational and Environmental Medicine	10
5	Occupational and Environmental Medicine	10
7	Transactions of the Society for Mining, Metallurgy, and Exploration	9
8	Public Library of Science One	6
9	American Journal of Infection Control	5
9	Mining Engineering	5

Source: NIOSHTIC-2 Bibliographic Database

Multimedia and Multicultural Communications in 2015

In an innovative multimedia initiative to reach Spanish-speaking workers throughout the United States, in 2015 NIOSH and the Mexican consulates in the United States developed a series of communication products for organizations that serve immigrant workers. The products include videos, brochures, and posters for workers and were created through community outreach, engagement, and input [NIOSH 2015i].

Complementing this nationwide initiative, NIOSH expanded its multicultural outreach in 2015 with a new listing of documents available in Chinese, French, Haitian Creole, Indonesian, Korean, Polish, Portuguese, Turkish, and Vietnamese [NIOSH 2015c].

Organizational Changes in 2015

Language also gained significance within the NIOSH organization in 2015 when the Division of Respiratory Disease Studies officially changed its name to the Respiratory Health Division (RHD). The name change reflected the Institute's mission to optimize health, as well as prevent disease. To that end, communication and research products began using the new RHD name to publicize research findings on respiratory safety and health.

In another noteworthy administrative change, the NIOSH family reorganized its Spokane Mining Research Division and the Western States Division. Their continued expertise in work-related issues in the western part of the country helped make 2015 another year of informative publications aimed at making the workplace safer and healthier for all U.S. workers.

Communication & Research Products by NORA Sector

Behind each NIOSH communication and research product are the organizing principles of the National Occupational Research Agenda (NORA). Since 1996, NORA has guided occupational safety and health research for NIOSH and the nation. As NORA neared the end of its second decade in 2015, three key priorities continued to guide NIOSH research projects. Table II lists the NORA key research priorities.

Table II. 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 2015, these priorities led to communication and research products that advanced workplace safety and health across each of NORA's 10 sectors. Table III lists the NORA sectors in descending order, based on the total number of NIOSH communication and research products published in 2015.

Table III. NIOSH Products by NORA Sectors, 2015

Rank	NORA sector	No.
1	Manufacturing	152
2	Mining	98
3	Construction	69
4	Services	64
5	Wholesale and Retail Trade	63
6	Healthcare and Social Assistance	55
7	Public Safety	34
8	Transportation, Warehousing and Utilities	20
9	Agriculture, Forestry and Fishing	9
10	Oil and Gas Extraction	8

Source: NIOSHTIC-2 Bibliographic Database

NORA-guided research at NIOSH spans the Institute's 13 divisions, laboratories, and offices (DLOs) to comprise a cohesive research portfolio. In 2015, the DLOs often published communication and research products across the NORA sectors, as Table IV depicts.

Table IV. Communication and Research Products by DLO and NORA Sector, 2015

Division/Lab/Office (DLO)	NORA Sectors: Manufacturing	Mining	Construction	Services	Wholesale and Retail Trade	Healthcare and Social Assistance	Public Safety	Transportation, Warehousing and Utilities	Agriculture, Forestry, Fishing	Oil and Gas Extraction
NIOSH Office of the Director (OD)	1		7							
Division of Applied Research and Technology (DART)	40	5	21	4	4	11	4	11	1	3
Division of Compensation Analysis and Support (DCAS)										
Respiratory Health Division (RHD)	4	3				1				
Division of Surveillance, Hazard Evaluations and Field Studies (DSHEFS)	27	2	2	4		12	14	5	3	1
Division of Safety Research (DSR)		1	3	2	2	4	13	6	1	1
Education and Information Division (EID)	21	2	29	44	67		1			
Health Effects Laboratory Division (HELD)	81	20	24	11	2	16	6	8	2	6
National Personal Protective Technology Laboratory (NPPTL)	4					14		1		
Office of Extramural Programs (OEP)										
Office of Mine Safety and Health Research (OMSHR)	1	71	2							1
Spokane Mining Research Division (SMRD)										
Western States Division (WSD)	1								2	2

Source: NIOSH

Note: Because more than one NIOSH division can contribute to a publication, the total number of publications by sector listed in Table IV may be more than the total of publications listed in Table III.

In the following sections are selected highlights of communication and research products according to their primary NORA sector. The statistics at the beginning of each section are from the NIOSH Data & Statistics by Industry Sector Web page [NIOSH, no date].

Selected Highlights

Manufacturing
Manufacturing comprises an estimated 14.3 million paid workers and slightly more than 10% of the total U.S. civilian workforce.

In 2015, NIOSH and the Occupational Safety and Health Administration (OSHA) published a Morbidity and Mortality Weekly Report and a hazard alert on silica exposure among workers who manufacture, finish, and install natural and manufactured stone countertop products. The documents identify silica exposure as a health hazard among stone countertop workers and provide specific protective actions that can help keep worker exposures below the NIOSH recommended exposure limit (REL) [CDC 2015a; OSHA, NIOSH 2015].

Mining
Mining comprises an estimated 817,000 paid workers and 0.6% of the total U.S. civilian workforce.

In 2015, NIOSH researchers published a paper in the peer-reviewed Journal of Occupational and Environmental Hygiene describing a novel technique that they developed to help prevent explosions in coal mines. Laboratory tests demonstrated that the technique accurately measures airborne coal dust in the presence of rock dust, which is crucial to explosion-prevention strategies [Barone et al. 2015, Epub ahead of print November].

Construction
Construction comprises an estimated 9 million paid workers and 6.5% of the total U.S. civilian workforce.

In 2015, NIOSH published a practical solution to reduce silica dust exposure and the risk of the lung disease silicosis among construction workers who cut fiber-cement siding. This Workplace Solutions describes how workers can use a regular shop vacuum attached to a dust-collecting circular saw to lower silica dust exposure when cutting fiber-cement siding [NIOSH 2015a].

Services
Services comprises an estimated 54.6 million paid workers and 39% of the total U.S. civilian workforce.

In July 2015, NIOSH published a guidance document for workers who handle the flavoring diacetyl after finding that exposure above recommended levels can cause the occupational lung disease obliterative bronchiolitis. Commonly known as popcorn lung because of its link to butter flavoring in microwave popcorn, this disease causes irreversible and critical lung damage. The document recommends and describes how employers and workers can use engineering controls, best work practices, and monitoring

techniques to reduce exposure to diacetyl, as well as the related flavoring 2,3-pentanedione and other alpha-diketones [NIOSH 2015b].

Later in the year, NIOSH investigators published a paper in the peer-reviewed *American Journal of Industrial Medicine* presenting findings from a NIOSH health hazard evaluation at a coffee processing facility. NIOSH undertook the health hazard evaluation after receiving notice that five former workers at this facility had developed obliterative bronchiolitis. At this time, NIOSH continues to investigate the association between the occupational lung disease and coffee processing, including roasting and grinding coffee beans [Bailey et al. 2015].

Wholesale and Retail Trade

The wholesale and retail trade sector comprises an estimated 19.7 million paid workers and 14.1% of the total U.S. civilian workforce.

NIOSH researchers published a 2015 paper in the peer-reviewed journal *Injury Prevention* after conducting a safety survey of convenience stores in Dallas and Houston, Texas. Based on the survey's results that stores did not consistently follow safety recommendations to prevent robberies, the paper presented measures that could improve compliance and help protect workers [Menéndez et al. 2015].

Healthcare and Social Assistance

Healthcare and social assistance comprises an estimated 18.9 million paid workers and 14% of the total U.S. civilian workforce.

In 2015, NIOSH and the CDC published a *Morbidity and Mortality Weekly Report* article describing a successful, rapid intervention to control the spread of Ebola virus in a remote Liberian village [CDC 2015b]. A multidisciplinary team of domestic and international partners helped the approximately 800 residents of Geleyansiesu control the outbreak, which came to attention after a man left the village following the deaths of his wife and daughter from illnesses consistent with Ebola. By providing a framework for controlling Ebola outbreaks in remote communities, through education, communication, and safe transportation for treatment, the intervention addressed an important component of the effort to eliminate Ebola from Liberia.

Public Safety

Public safety comprises more than 3.5 million employees, half of whom work as volunteer fire fighters and emergency medical services volunteers.

In 2015, NIOSH published a paper in the peer-reviewed journal *Policing: An International Journal of Police Strategies and Management*, based on a safety survey of more than 1,400 officers in the state of Iowa. This research culminated in an educational pamphlet to encourage law enforcement officers to take five simple steps to protect themselves at work. Together, these publications fill a critical safety need, since motor vehicle crashes, both while driving and working outside of a patrol car, are the leading cause of death among law enforcement officers [Tiesman et al. 2015; NIOSH 2015k].

Transportation, Warehousing, and Utilities
Transportation, warehousing, and utilities comprises an estimated 7.2 million paid workers and 5.1% of the total U.S. civilian workforce.

In 2015, NIOSH published recommendations to prevent mid-air aircraft collisions in Alaska. Working with several federal and industry partners, NIOSH investigators analyzed data from Federal Aviation Administration and Aviation Safety Reporting System databases to develop the recommendations [NIOSH 2015d].

Agriculture, Forestry and Fishing
Agriculture, forestry, and fishing comprises an estimated 2.2 million paid workers and 1.6% of the total U.S. civilian workforce.

In May, NIOSH published an impact statement describing a study at the University of California Davis' Western Center for Agricultural Health and Safety. This NIOSH-funded study developed a new method to measure an important enzyme in the body, called cholinesterase (ChE), which is necessary to maintain communication pathways between nerves and muscles. Exposure to certain pesticides above RELs can inhibit ChE production, causing loss of muscle control and other serious complications [NIOSH 2015e].

In July, NIOSH published a fact sheet for Dungeness crab fishers and captains about the most effective personal flotation devices (PFDs). NIOSH researchers developed the fact sheet with partners from the University of Washington and Oregon Health Sciences University by rating the comfort and acceptability of five modern PFDs [NIOSH 2015g].

Oil and Gas Extraction
Oil and gas extraction comprises more than 400,000 paid workers.

In 2015, NIOSH published a report on fatalities among oil and gas extraction workers during 2014. NIOSH investigators developed the report with data from the new NIOSH Fatalities in Oil and Gas Extraction database. This database collects detailed information about land-based and offshore oil and gas extraction fatalities in the United States to inform NIOSH, industry, and other stakeholder groups and to guide interventions to prevent future loss of life in this industry [NIOSH 2015f].

Communication & Research Products by NORA Cross-Sector

Certain work-related risks are workplace-specific. Coal dust exposure, for example, affects coal mine workers, while pesticide exposure is more prevalent in agriculture than in other industries. Other work-related risks, however, such as exposure to cigarette smoke, hearing damage, and workplace violence, are prevalent across diverse industries. Addressing these prevalent risks are the NORA cross-sector programs, which align with two main categories: (1) health outcomes and (2) core and specialty areas.

In 2015, NIOSH communication and research products addressed work-related issues within many of the 21 NORA cross-sector programs. Table V lists these programs, followed by selected highlights from two products that intersect multiple programs to affect nearly all workers, wherever their workplace may be.

Table IV. NORA Cross-sector Programs

Health Outcome Cross-sector Programs	Core and Specialty Area Cross-sector Programs
Cancer, Reproductive and Cardiovascular	Authoritative Recommendations
Hearing Loss Prevention	Economics
Immune and Dermal	Emergency Preparedness and Response
Musculoskeletal Disorders	Engineering Controls
Respiratory Diseases	Exposure Assessment
Traumatic Injury	Global Collaborations
Work Organization and Stress-Related Disorders	Health Hazard Evaluations
	Nanotechnology
	Occupational Health Disparities
	Personal Protective Technology
	Prevention through Design
	Small Business Assistance
	Surveillance
	Total Worker Health

Source: NIOSH

Selected Highlights

Tobacco-Free Workplaces

In 2015, NIOSH published a current intelligence bulletin again recommending that all workplaces become tobacco-free and that employers make tobacco-cessation programs available to workers. The bulletin differs from the Institute's previous calls for tobacco-free workplaces because it encompasses electronic nicotine delivery systems, or e-cigarettes, to protect workers from both workplace exposure to tobacco and emissions from e-cigarettes [NIOSH 2015h].

Prevention through Design

Also in 2015, NIOSH published a document explaining how employers can make decisions concerning prevention-through-design solutions proven to reduce injuries and

illnesses. With this information, employers and workers will better understand how to encourage the use of these protective solutions in their own workplaces [NIOSH 2015j].

NIOSH Bibliography of Communication and Research Products—2015

The preceding highlights are just a sampling of the hundreds of communication and research products that NIOSH published in 2015. Displaying the full range of these products, the following NIOSH Bibliography of Communication and Research Products 2015 provides a richly detailed snapshot of proven measures to prevent the leading work-related hazards of the past year.

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Journal Articles

NOTE: For electronic versions of the NIOSH Bibliography, NIOSHTIC-2 numbers are linked to the corresponding page in the NIOSHTIC-2 Bibliographic Database. Titles are linked to the corresponding Web page when a DOI or NIOSH link is available. Blue type indicates links.

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Abstracts

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Control Technology Reports

NOTE: For electronic versions of the NIOSH Bibliography, NIOSHTIC-2 numbers are linked to the corresponding page in the NIOSHTIC-2 Bibliographic Database. Titles are linked to the corresponding Web page when a DOI or NIOSH link is available. Blue type indicates links.

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Fatality Assessment and Control Evaluation Reports

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Health Hazard Evaluation Reports

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