

Implementation Plan for National Academies' Recommendations: Construction Research Program



NIOSH Board of Scientific Counselors

September 5, 2014, Washington, DC

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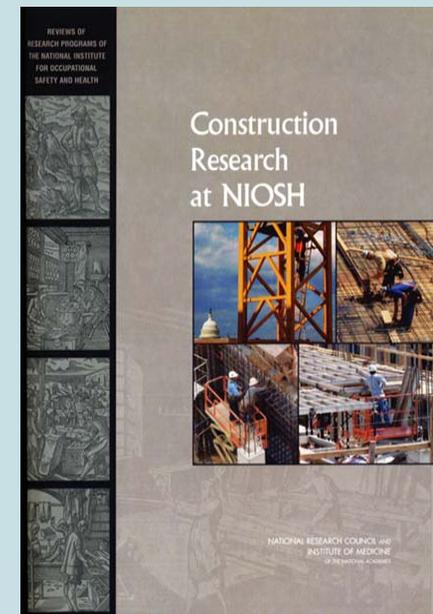
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LCDR Elizabeth P. Garza, M.P.H., Assistant Coordinator

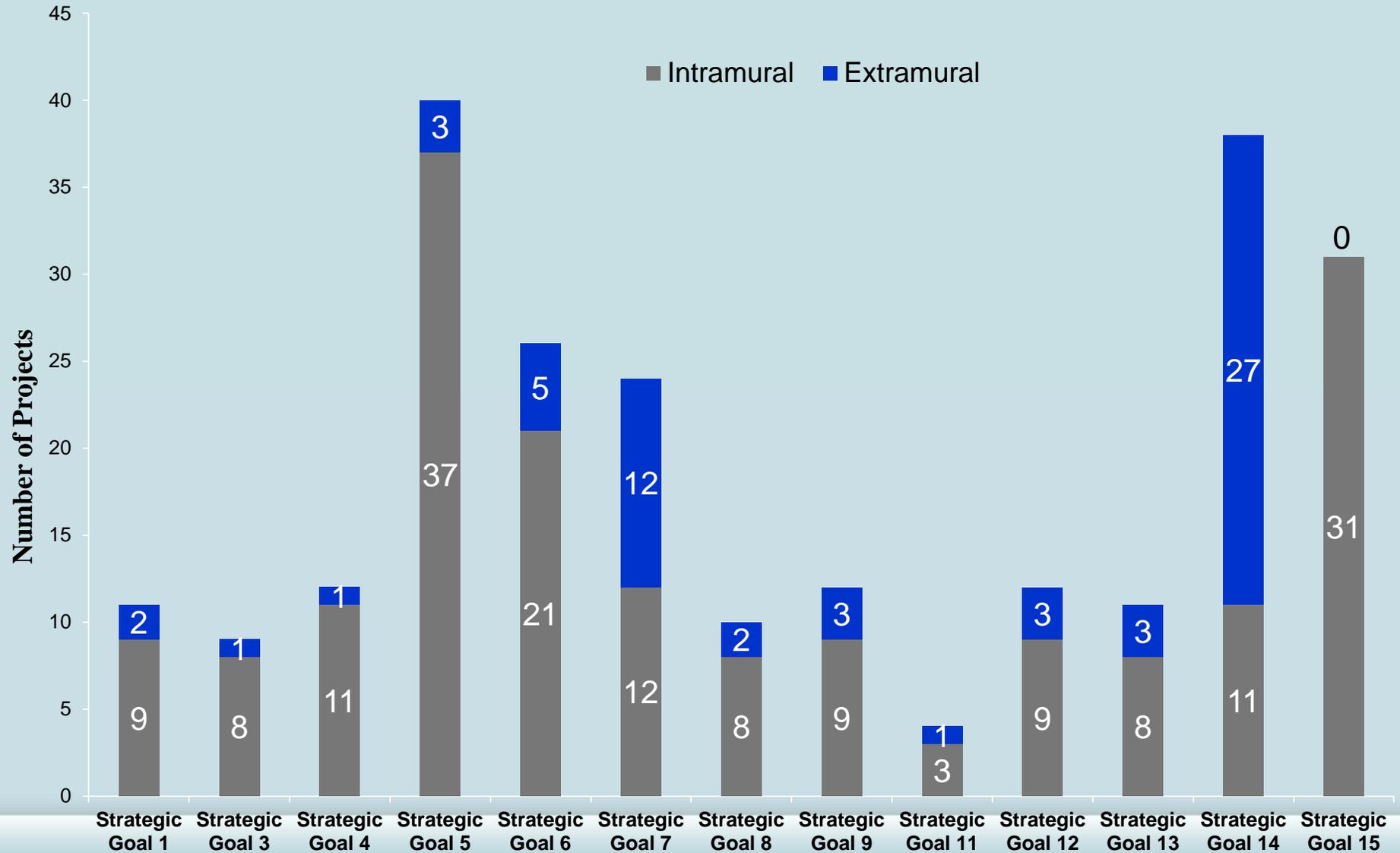


Selected National Academies' Recommendations

- (1) Research-to-Practice efforts should involve individuals with training
- (2) The majority of research-to-practice efforts should be conducted through the National Construction Center
- (4) The Construction Program Coordinator and the Construction Program Manager should be full-time
- (5) The National Construction Center should be used as an important component
- (6) The Program should establish a closer connection with OSHA and other regulatory or consensus standards organizations



Number of Research Projects by Construction Sector Goal (FY2012)



Selected National Academies' Recommendations

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(4) The Construction Program Coordinator and the Construction Program Manager should be full-time



**These will be
discussed together**



Program Structure and Focus Areas

NIOSH Construction Safety and Health Program

Intramural Research

Basic Research
Surveillance
Methods Research
Exposure Assessment
Controls Development
Applied Research
Research to Practice

National Construction Center

Industry Characterization
Applied Research
Industry Liaison
Intervention
Research to Practice

Extramural Investigator- initiated Grants

Innovative Ideas
Opportunities
State Initiatives

CPWR

The Center for Construction Research and Training

r2p

**CPWR, NIOSH, OSHA
r2p Working Group**

Dissemination Planning and Tracking Tools

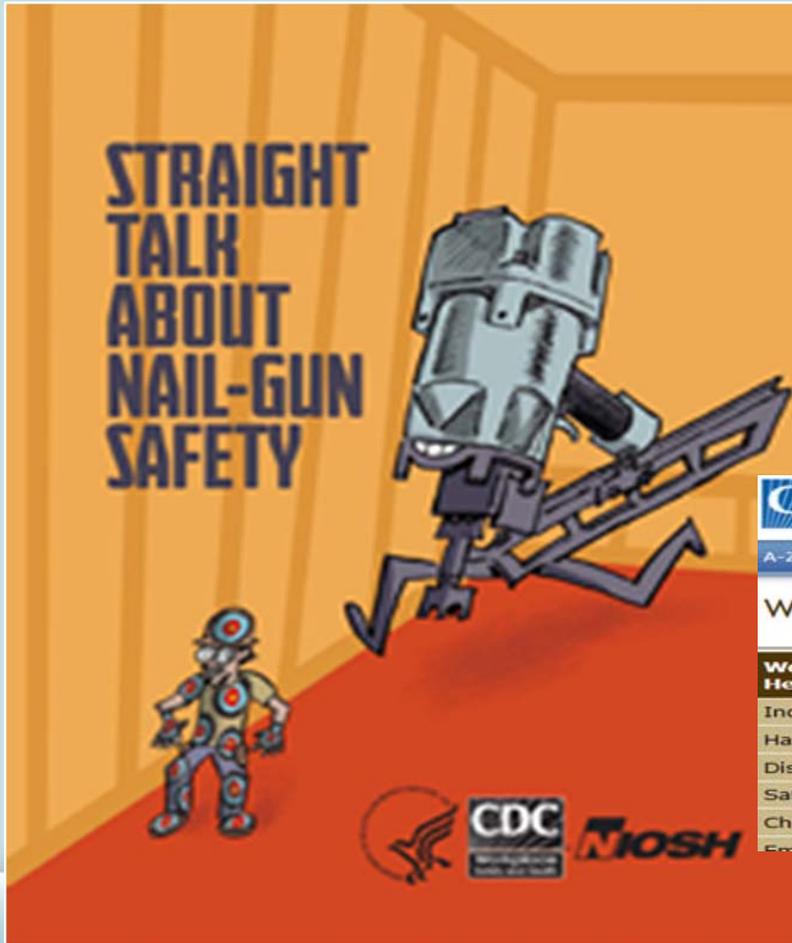


Overview of Impacts Made Since 2012



Nail Gun Safety:

- *Guide for Construction Contractors*
- *Straight Talk About Nail Gun Safety*
- Online topic pages



CDC Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

A-Z Index for All CDC Topics

Workplace Safety & Health Topics

- Workplace Safety and Health Topics
- Industries & Occupations
- Hazards & Exposures
- Diseases & Injuries
- Safety & Prevention
- Chemicals
- Emergency Preparedness

NIOSH

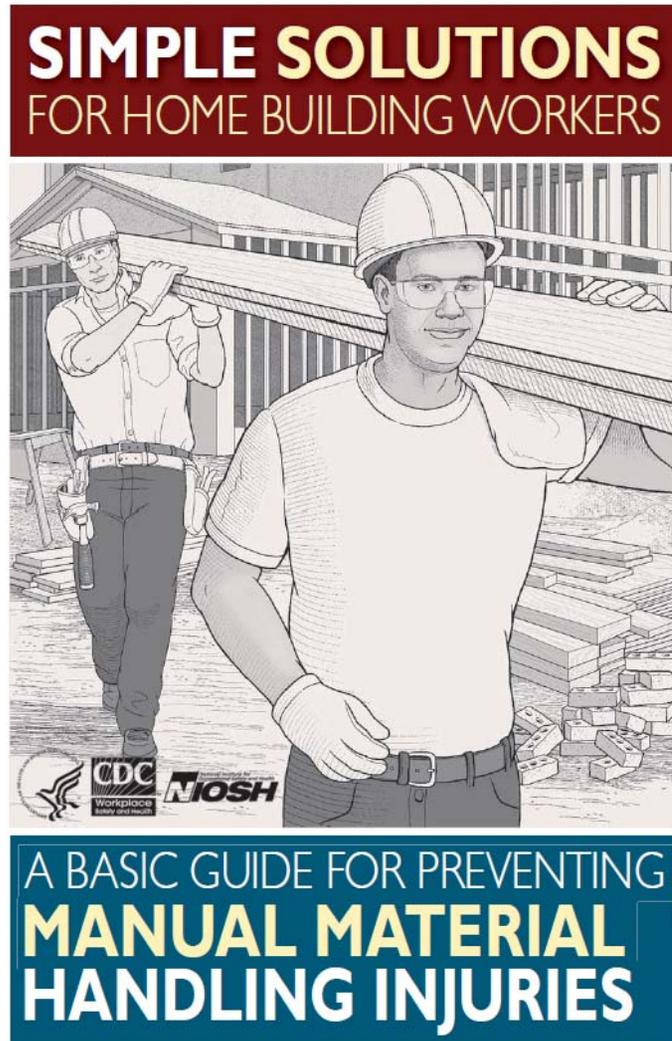
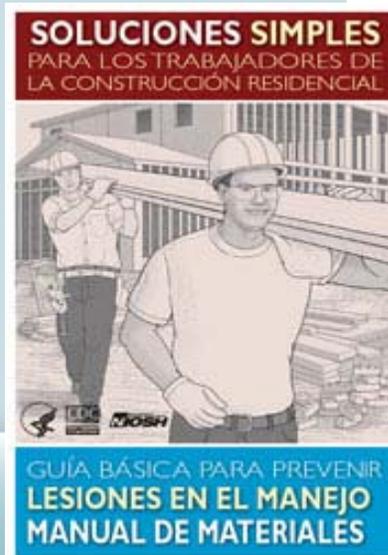
[Recommend](#) [Tweet](#) [Share](#)

Nail Gun Safety

Nail guns have replaced hammers in wood frame construction. They are powerful, easy to operate and boost productivity for nailing tasks. Nail guns are a leading cause of injury among residential carpenters and responsible for an estimated 37,000

Simple Solutions for Home Building Workers

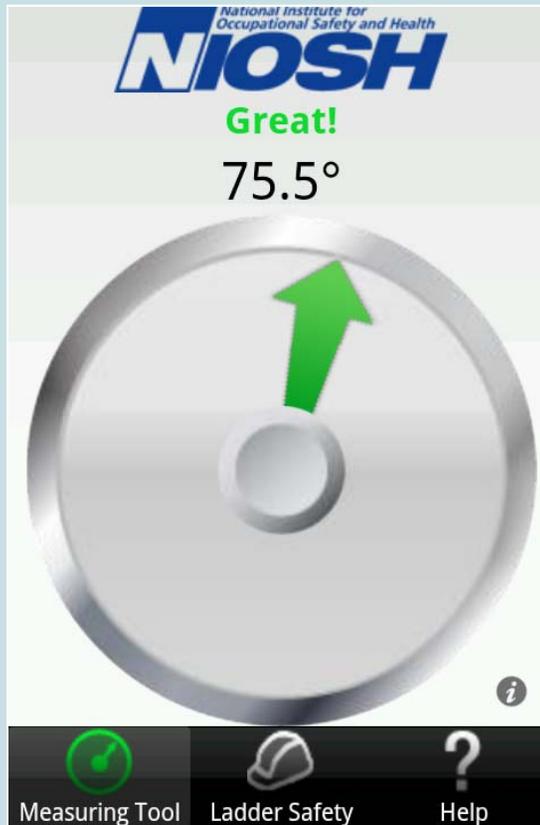
Published in June 2013



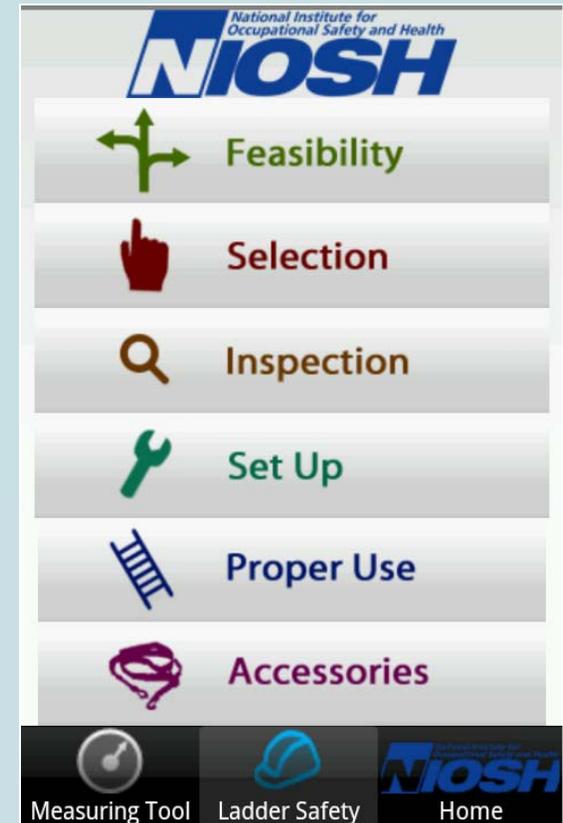
Ladder Safety Application for Smart Phones

Peter Simeonov, DSR
and team

Developed APP to
quickly and easily
position extension
ladder at correct
angle



Inclination indicator



Graphic-oriented aid

Buy Quiet

Nearly

50%

of construction workers suffer hearing loss

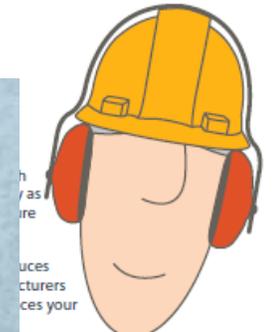
HEARING LOSS IS PREVENTABLE

and you can do something about it...

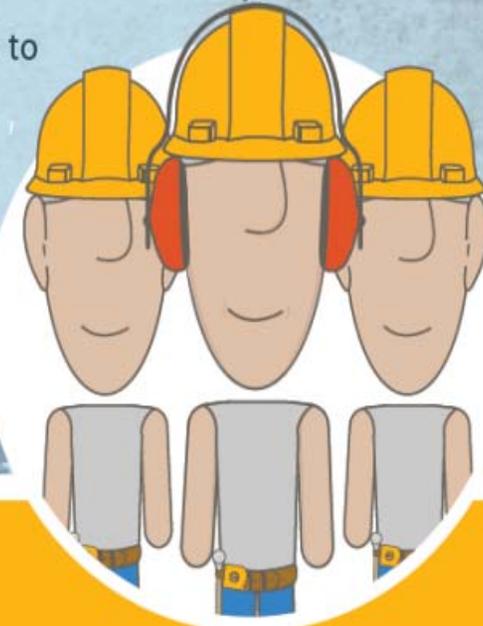
BUY QUIET

A commitment to buying quieter equipment:

- Reduces your risk of hearing loss
- Reduces the noise impact on our community
- Encourages manufacturers to design quieter equipment



What You Can Do



Masonry r2p Partnership



[home](#) » [research](#) » [r2p: research to practice initiative](#) » [prevention partnerships](#)

Masonry Research to Practice Partnership

Established in November 2010, the Masonry Research to Practice (r2p) Partnership draws its core members from three organizations with a national influence over safety & health practices in the masonry industry: the [International Council of Employers](#), the [International](#)

by
the
CRAFT COMMITTEES

Craft Committees Identify Safety and Health r2p Priorities

BRICK AND BLOCK COMMITTEE



Coverdell Co-Chairs – ICE President Fred Kiralodes, left, and IU President James Olson – facilitated the Committee's discussion on safety practices, existing research, and potential areas for further study. Members also heard from Caliber Products, which produces a lightweight, environmentally friendly fly ash block, and IMI, on recently issued recommendations for the safe use of most profitable fly ash.

BAC, ICE and IMI are taking a lead role, in coordination with CPWR, The Center for Construction Research and Training, to translate safety and health research findings into practical solutions on construction sites through the establishment of the Masonry Industry Research to Practice [r2p] Partnership. In addition to using this Partnership to advance their shared goals of safe jobsites, BAC, ICE and IMI are working with CPWR to develop a model r2p partnership structure and process that other segments of the construction industry will be able to replicate.

"The Partnership's mission is to bridge the gap between the research community's findings on how to make job sites safer and what is actually happening in the field," says IU Executive Vice President Gerard Susano, who oversees safety and health issues for the IU Executive Board. "BAC's participation moves us closer to our ultimate goal of ensuring that members are not injured,

To learn more about the Masonry r2p Partnership, please visit the following articles:

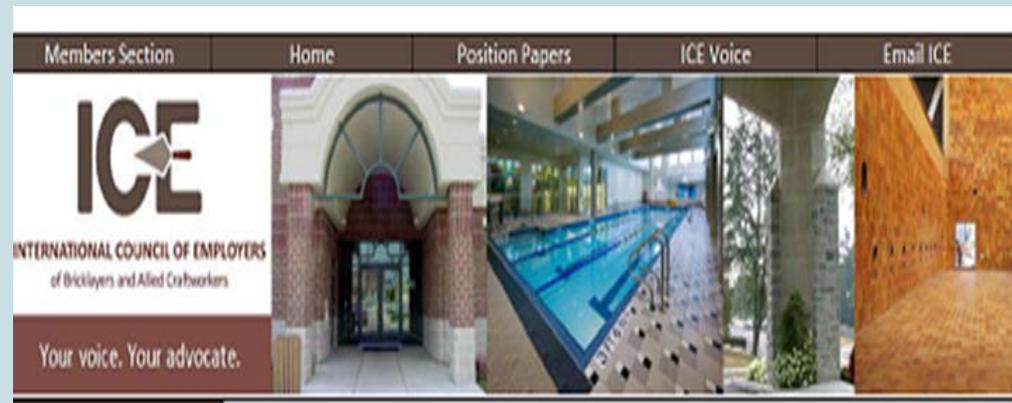
- [ICE Voice \[2010\] Unionized Masonry Industry to Serve as r2p Partnership Model for Construction Safety, 4th Quarter 2010 Report, p 8.](#)
- [ICE Voice \[2011\] ICE/BAC Initiatives Take Center Stage at](#)

Developed safety and health priorities

Identified communication methods

Identified intervention gap

Baseline surveys of workers and contractors

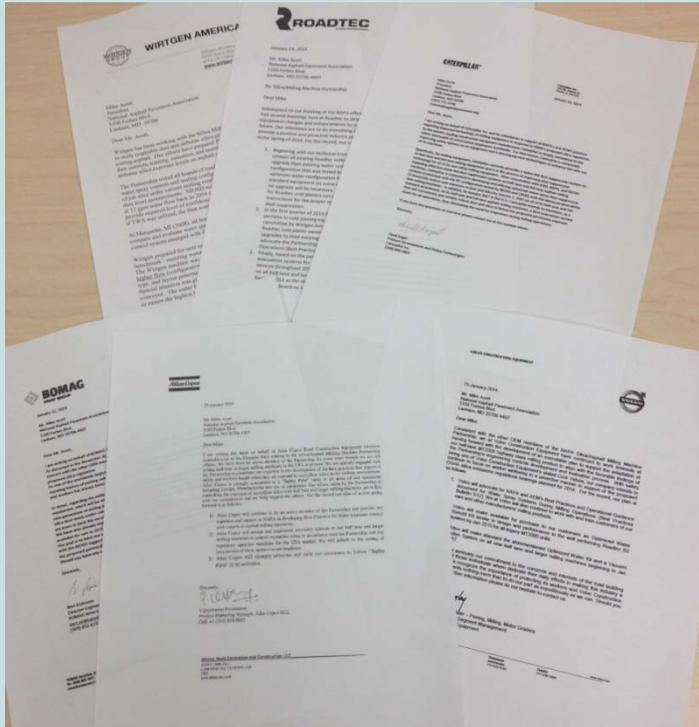


Unionized Masonry Industry to Serve as r2p Partnership Model for Construction Safety

CPWR - The Center for Construction Research and Training, BAC, ICE and IMI are taking a lead role in translating safety and health research findings into practical solutions on construction sites through the establishment of the Masonry Industry Research to Practice [r2p] Partnership.



Progress on Silica: National Asphalt Paving Association (NAPA)

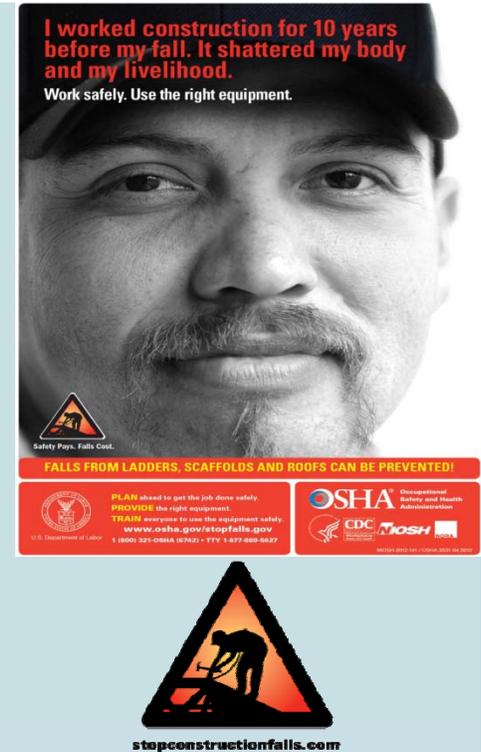


Letters of commitment to OSHA docket
Manufacturers committed to best practice
silica dust controls on all new half-lane
and larger asphalt milling machines

- Best Practice water-spray controls by Jan 2015.
- Retrofit water-spray kits for machines 5-years old.
- Best Practice ventilation dust controls by January 2017.



Construction Falls Prevention Campaign



Dissemination of campaign information through:

- National Association of Counties in their April 2013 newsletter
- National League of Cities in their January 2013 newsletter
- CDC's *Morbidity and Mortality Weekly Report* (MMWR) each year



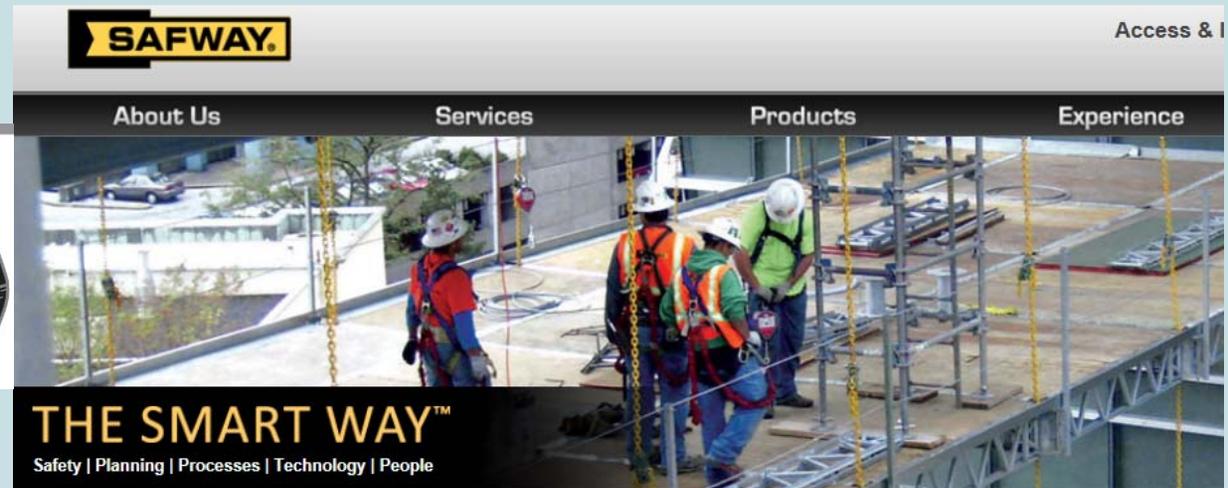
Winner of the **2012 Thoth Award** in the Research and Evaluation Category
from the Public Relations Society of America



stopconstructionfalls.com



Construction Falls Prevention Campaign



Safway

- Largest provider of construction access equipment in North America
- Campaign partner in 2014
- Invested ~\$100,000 to prepare company-specific campaign materials for staff, trainees, and business partners.



National Safety **STAND-DOWN**

TO PREVENT FALLS IN CONSTRUCTION

JUNE 2-6, 2014



Stop Falls Stand-Down

- Plan a toolbox talk or other safety activity
- Take a break to talk about how to prevent falls
- Provide training for all workers

For more information:

www.osha.gov/StopFallsStandDown

#StandDown4Safety | (800) 321-OSHA (6742)



Safety Pays. Falls Cost.



National Safety Stand-Down



U.S. Air Force Ground Safety

- United States and abroad
- Through training activities, internal newspaper articles, internal television network, and briefings at the Air Force Ground Safety Commander's calls
- 2,000 Air Force Ground safety professionals were required to focus on fall protection awareness during the entire week of the stand-down
- 650,000 staff at every at U.S. Air Force base expected to be reached



CDC Home
Centers for Disease Control and Prevention
CDC 24/7: Saving Lives. Protecting People.™

NIOSH
All CDC Topics

A-Z Index for All CDC Topics

CONSTRUCTION

Construction workers and employers build our roads, houses, and workplaces and repair and maintain our nation's physical infrastructure. Construction includes building new structures, renovations involving additions, alterations, or maintenance, and repair of buildings or engineering projects such as highways or utility systems. The NIOSH Construction Program provides national and world leadership to prevent work-related illness, injury, disability, and death by systematically gathering information, conducting targeted scientific research, and translating the knowledge gained into products, solutions and services tailored to meet construction needs. In collaboration with industry and labor partners and stakeholders, including OSHA, we are dedicated to improving safety and health conditions for all construction workers.

In 2010, there were 774 fatal on-the-job injuries to workers in the construction industry – more than in any other industry sector and representative of 17% of all work-related deaths in the U.S. that year. Construction is a large, dynamic, and complex industry sector, putting nearly \$800 billion of construction in place in 2011. Construction work sites are organizationally complex multi-employer sites and present numerous health and safety challenges.

Spotlights

- Nail Gun Safety: A Guide for Construction Contractors – (Spanish) Seguridad con las pistolas de clavos
- Safety Pays. Falls Cost. Campaign to Prevent Construction Falls Launched
- New on NIOSH FACE: Search Residential and Commercial Construction Falls
- Follow us @NIOSHConstruct on Twitter!

Calendar of Events

Provide Feedback about this page

Contact Us:
National Institute for Occupational Safety and Health (NIOSH)
Centers for Disease Control and Prevention
800-CDC-INFO (800-232-4636)

NIOSH Web and Twitter Pages

Construction @ NI...
@NIOSHConstruct

TWEETS 3,498 FOLLOWING 106 FOLLOWERS 12.1K

CPWR Web and Twitter Pages

Getting Equipped

TWEETS 233 PHOTOS/VIDEOS 11 FOLLOWING 58 FOLLOWERS 281 FAVORITES 28 More

Following

CPWR
THE CENTER FOR CONSTRUCTION RESEARCH AND TRAINING

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CPWR is dedicated to reducing

A world leader in construction safety and health research and training

UNITED STATES DEPARTMENT OF LABOR

OSHA
Occupational Safety & Health Administration

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CONSTRUCTION INDUSTRY

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Construction is a high hazard industry that comprises a wide range of activities involving construction, alteration, and/or repair. Examples include residential construction, bridge erection, roadway paving, excavations, demolitions, and large scale painting jobs. Construction workers engage in many activities that may expose them to serious hazards, such as falling from rooftops, unguarded machinery, being struck by heavy construction equipment, electrocutions, silica dust, and asbestos.

The information, tools, and resources provided in these Construction Industry web pages are designed to assist those in the industry – whether worker or employer – to identify, reduce, and eliminate construction-related hazards.

National Safety Stand-Down
Find Out More!

Preventing Falls in Construction
En español

Demolition Communication Towers

Cranes & Derricks in Construction Incidents

OSHA Web Page

Recommendation #4 – Full-time Coordinator and Manager – Current Staffing



LCDR Elizabeth Garza, MPH

Public Health Analyst

CAPT G. Scott Earnest, Ph.D., P.E., C.S.P.

Chief, Engineering and Physical Hazards Branch, Division of Applied Research and Technology detailed to CSH beginning in January 2014

Christine Branche, Ph.D., FACE

Director, and NIOSH Construction Program Manager

Matt Gillen, CIH

Retired as Deputy Director, and NIOSH Construction Program Coordinator in March 2014

Next Steps

Continue implementing the National Academies' Recommendations, focusing on the selected high priority issues

Continue efforts to achieve NORA goals

Respond to Board of Scientific Counselors feedback and advice

