

NIOSH Science Awards 2014

James P. Keogh Award

Alice Hamilton Award

Bullard-Sherwood (r2p) Award

Director's Intramural Award

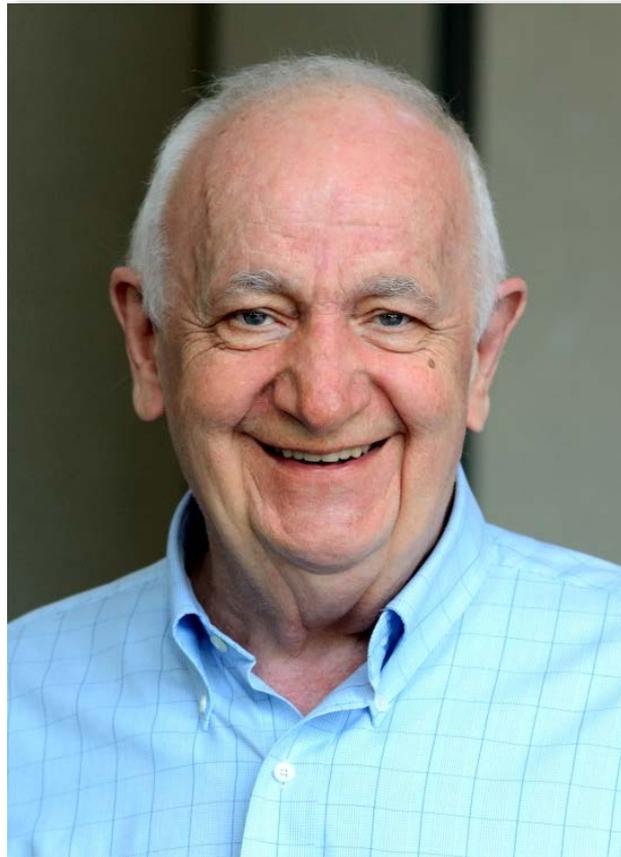
May 1, 2014 | Pittsburgh, PA

2014 James P. Keogh Award



Recognizing one current or former NIOSH employee for exceptional service in occupational safety and health

Presented to
Albert E. Munson, Ph.D.





153,617,000 U.S. workers in 2011

3,800,000 sick or injured every year



Nearly **2 million** workers

transferred jobs, were placed on work restriction or took time off



568 workers develop work-related illness each day

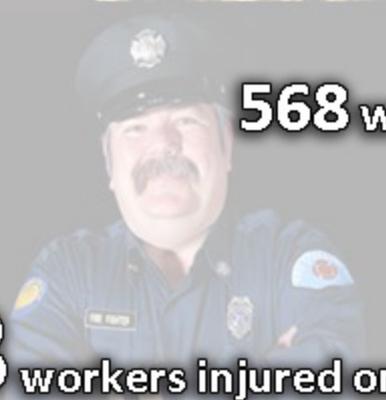
9,863 workers injured on the job every day

13 workers **fatally injured** every day

Societal Costs

\$202 billion spent on work injuries

\$61 billion spent on work illnesses





153,614,000 U.S. workers in 2011

3,800,000 sick or injured every year

Nearly 2 million workers

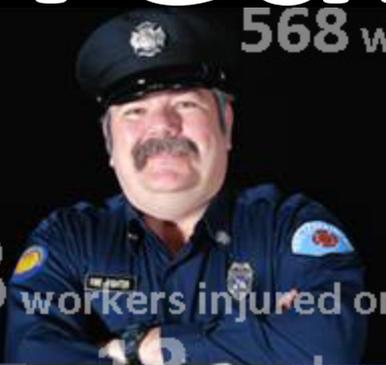
transferred jobs, were placed on work restriction or took time off

these numbers are real



9,863

workers injured on the job every day



13 workers fatally injured every day

Societal Costs

\$202 billion

spent on work injuries

\$61 billion

spent on work illnesses



Alice Hamilton Award



For excellence in occupational safety and health

Award Categories

- Education and Guidance
- Engineering and Controls
- Epidemiology and Surveillance
- Exposure and Risk Assessment
- Methods and Laboratory Science

Education and Guidance

Hartley D, Ridenour M, Craine J, Costa B

Workplace Violence Prevention for Nurses

[2013]. CDC Course No. WB1865. Morgantown, WV: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2013-155.

Education and Guidance Honorable Mention

Albers J, Hudock SD, Lowe B, Thorkelson N

Straight Talk about Nail-gun Safety

[2013]. Cincinnati, OH: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2013-149.

Education and Guidance Honorable Mention

MacDonald LA, Waters TR, Napolitano PG,
Goddard DE, Ryan MA, Nielsen P, Hudock SD

Clinical Guidelines for Occupational Lifting in Pregnancy:
Evidence Summary and Provisional Recommendations

[2013]. *Am J Obstet Gynecol* 209(2):80–88.

Engineering and Controls

Simeonov P, Hsiao H, Powers J, Kim I-J,
Kau T-Y, Weaver D

Research to Improve Extension Ladder
Angular Positioning

[2013]. *Appl Ergon* 44(3):496–502.

Engineering and Controls Honorable Mention

Zhuang Z, Shu C, Xi P, Bergman M, Joseph M

Head-and-face Shape Variations of U.S. Civilian Workers

[2013]. Appl Ergon 44(5):775–784.

Epidemiology and Surveillance

Menéndez CKC, Amandus HE, Damadi P,
Wu N, Konda S, Hendricks SA

Effectiveness of Taxicab Security Equipment
in Reducing Driver Homicide Rates

[2013]. Am J Prev Med 45(1):1–8.

Epidemiology and Surveillance Honorable Mention

Daniels RD, Kubale TL, Yiin JH, Dahm MM,
Hales TR, Baris D, Zahm SH, Beaumont JJ,
Waters KM, Pinkerton LE

Mortality and Cancer Incidence in a Pooled Cohort of
U.S. Firefighters from San Francisco, Chicago and
Philadelphia (1950–2009)

[2013]. Occup Environ Med: Epub ahead of print, 2013 Oct.

Exposure and Risk Assessment

Esswein EJ, Breitenstein M, Snawder J,
Kiefer M, Sieber WK

Occupational Exposures to Respirable Crystalline Silica
during Hydraulic Fracturing

[2013]. *J Occup Environ Hyg* 10(7):347–356.

Exposure and Risk Assessment Honorable Mention

Zumwalde R, Kuempel E, Birch E,
Trout D, Castranova V

Occupational Exposure to Carbon Nanotubes and
Nanofibers. Current Intelligence Bulletin 65

NIOSH [2013]. Cincinnati, OH: U.S. Department of Health and Human
Services, Centers for Disease Control and Prevention, National Institute for
Occupational Safety and Health, DHHS (NIOSH) Publication No. 2013-145.

Methods and Laboratory Science

Mercer RR, Scabilloni JF, Hubbs AF, Wang L,
Battelli LA, McKinney W, Castranova V, Porter DW

Extrapulmonary Transport of MWCNT Following
Inhalation Exposure

[2013]. Part Fibre Toxicol 10:38

Methods and Laboratory Science Honorable Mention

Erdely A, Dahm M, Chen BT, Zeidler-Erdely PC, Fernback JE, Birch ME, Evans DE, Kashon ML, Deddens JA, Hulderman T, Bilgesu SA, Battelli L, Schwegler-Berry D, Leonard HD, McKinney W, Frazer DG, Antonini JM, Porter DW, Castranova V, Schubauer-Berigan MK

Carbon Nanotube Dosimetry: From Workplace Exposure Assessment to Inhalation Toxicology

[2013]. Part Fibre Toxicol 10:53.

2014 Bullard-Sherwood r2p Award

For outstanding application of occupational safety and health research

Award Categories

- Knowledge
- Intervention
- Technology



Recognizing excellence in translating research into practice

Knowledge

Hsiao H, Whisler R, Zwiener J, Weaver D,
Amendola A, Powers J, Guan J, Simeonov P,
Current R, Newbraugh B, Hill G

Sizing Firefighters and Fire Apparatus—Safe by Design

Intervention

Dubaniewicz T Jr., DuCarme J, Srednicki J

Battery Safety Enhancements for Underground
Coal Mines

Technology

Simeonov P, Hsiao H, Powers J, Weaver D

Effectiveness of Extension-ladder Safety Innovations:
Development and Dissemination of the First NIOSH
Smartphone App—Ladder Safety

Technology Honorable Mention

LeBouf R, Chen TH, Frazer D, Virji MA

Development and Validation of a Consensus Standard Test Method for Measurement of Airborne Metal and Metal Oxide Nanoparticle Surface Area Concentration in Inhalation Exposure Chambers using Krypton Gas Adsorption

2014 Director's Intramural Award for Extraordinary Science

Recognizes outstanding contributions by intramural scientists and support staff to science excellence at NIOSH

Award Categories

- Distinguished Career Scientist
- Early Career Scientist
- Scientific Support

Distinguished Career Scientist

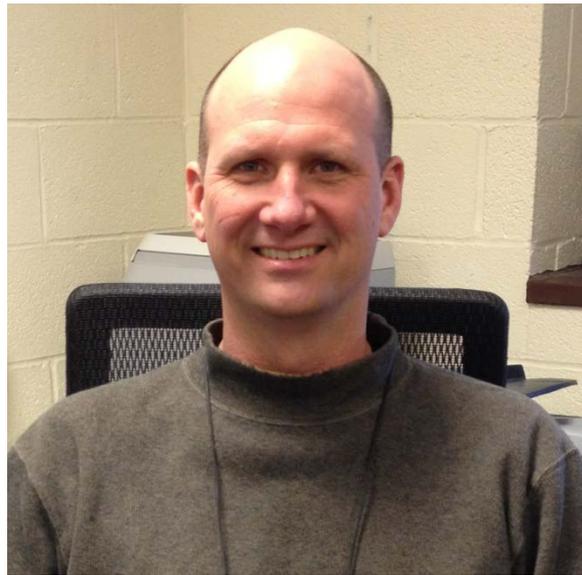
Mark R. Stephenson



Cincinnati-Taft

Early Career Scientist

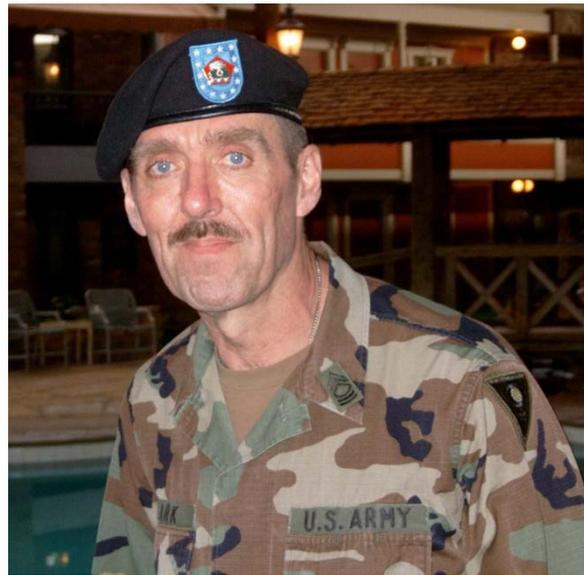
Michael Flynn



Cincinnati-Taft

Scientific Support

John C. Clark



Cincinnati-Taft

Congratulations to all of our winners!

Reception immediately following the awards ceremony