



## The National Institute for Occupational Safety and Health (NIOSH)

Promoting productive workplaces  
through safety and health research



### Alice Hamilton Awards 2013

#### 2013 Awards, Honorable Mentions, Finalists, and Updates

##### Education and Guidance Category



###### Winner:

Pan CS, Chiou S, Hsiao H, Keane P [Ergonomic hazards and controls for elevated devices in construction](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>). Occupational ergonomics: theory and applications, second edition. Bhattacharya A, McGlothlin JD, eds., Boca Raton, FL: CRC Press, pp. 653-693, 2012

###### Honorable Mention:

Robson LS, Stephenson CM, Schulte PA, Amick BC, Irvin EL, Eggerth DE, Chan S, Bielecky AR, Wang AM, Heidotting TL, Peters RH, Clarke JA, Cullen K, Rotunda CJ, Grubb PL [A systematic review of the effectiveness of occupational health and safety training](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Scand J Work Environ Health 38(3):193-208, 2012

##### Engineering and Control Category



###### Winner:

Karacan CÖ, Goodman GVR [A CART technique to adjust production from longwall coal operations under ventilation constraints](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>). Safety Science 50:510-522, 2012

###### Honorable Mention:

Cecala AB, O'Brien AD, Schall J, Colinet JF, Fox WR, Franta RJ, Joy J, Reed WR, Reeser PW, Rounds JR, Schultz MJ [A dust control handbook for industrial mineral mining and processing](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . 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. 2012-112, 2012

##### Epidemiology and Surveillance Category



###### Winner:

Attfield MD, Schleiff PL, Lubin JH, Blair A, Vermeulen R, Coble JE, Silverman DT [The Diesel Exhaust in Miners study: a cohort mortality study with emphasis on lung cancer](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>). J Natl Cancer Inst 104:1-15, 2012

###### Honorable mention (Jointly submitted):

- Baron SL, Hein MJ, Lehman EJ, Gersic CM [Body Mass Index, playing position, race, and the cardiovascular mortality of retired professional football players](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Am J Cardiol 109:889-896, 2012
- Lehman EJ, Hein MJ, Baron SL, Gersic CM [Neurodegenerative causes of death among retired National Football League players](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Neurology 79(19): 1970-1974, 2012

##### Exposure and Risk Assessment Category



###### Winner:

Chen BT, Schwegler-Berry D, McKinney W, Stone S, Cumpston JL, Friend S, Porter DW, Castranova V, Frazer DG [Multi-walled carbon nanotubes: sampling criteria and aerosol characterization](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Inh Toxicol 24(12):798-820, 2012

###### Honorable Mention:

Noti JD, Lindsley WG, Blachere FM, Cao G, Kashon ML, Thewlis RE, McMillen-CM, King WP, Szalajda JV, Beezhold DH [Detection of infectious influenza virus in cough aerosols generated in a simulated patient examination room](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Clin Infect Dis 54(11):1569-1577, 2012

##### Methods and Laboratory Science Category



###### Winner:

Hubbs AF, Cumpston AM, Goldsmith WT, Battelli LA, Kashon ML, Jackson MC, Frazer DG, Fedan JS, Goravanahally MP, Castranova V, Kreiss K, Willard PA, Friend S, Schwegler-Berry D, Fluharty KL, Sriram K [Respiratory and olfactory cytotoxicity of inhaled 2,3-pentanedione in Sprague-Dawley rats](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Am J Pathol 181(3): 829-844, 2012

###### Honorable Mention:

Qi C, Kulkarni P [Miniature dual-corona ionizer for bipolar charging of aerosol](https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html)(<https://www.cdc.gov/niosh/awards/hamilton/aliceabs13.html>) . Aerosol Science and Technology 47(1): 81-92, 2013 [Published online in 2012]

##### Finalists



The names are not necessarily listed in the order in which they were ranked.

## Education and Guidance

Martin M, Cox Ganser J, Kreiss K, Kanwal R, Sahakian N [2012]. NIOSH alert: Preventing occupational respiratory disease from exposures caused by dampness in office buildings, schools, and other nonindustrial buildings. 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 102.

Pan CS, Chiou SS, Hsiao H, Keane P [2012]. Ergonomic hazards and controls for elevating devices in construction. In: Bhattacharya A, McGlothlin JD, eds. *Occupational ergonomics: theory and applications*. 2nd ed. Boca Raton, FL: CRC Press, pp. 653–693.

Robson LS, Stephenson CM, Schulte PA, Amick BC III, Irvin EL, Eggerth DE, Chan S, Bielecky AR, Wang AM, Heidotting TL, Peters RH, Clarke JA, Cullen K, Rotunda CJ, Grubb PL [2012]. A systematic review of the effectiveness of occupational health and safety training. *Scand J Work, Environ & Health* 38(3):193–208.

## Engineering and Control

Cecala AB, O'Brien AD, Schall J, Colinet JF, Fox WR, Franta RJ, Joy J, Reed WR, Reeser PW, Rounds JR, Schultz MJ [2010]. Dust control handbook for industrial minerals mining and processing. Pittsburgh, PA: 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. 2012 112.

Fisher EM, Richardson AW, Harpest SD, Hofacre KC, Shaffer RE [2012]. Reaerosolization of MS2 bacteriophage from an N95 filtering facepiece respirator by simulated coughing. *Ann Occup Hyg* 56(3):315–325.

Karacan COuml;, Goodman GVR [2012]. A CART technique to adjust production from longwall coal operations under ventilation constraints. *Saf Sci* 50(3):510–522.

## Epidemiology and Surveillance

Attfield MD, Schleiff PL, Lubin JH, Blair A, Stewart PA, Vermeulen R, Coble JB, Silverman DT [2012]. The Diesel Exhaust in Miners Study: a cohort mortality study with emphasis on lung cancer. *J Natl Cancer Inst* 104(11):869–883.

Jointly submitted:

- Baron SL, Hein MJ, Lehman E, Gersic CM [2012]. Body mass index, playing position, race, and the cardiovascular mortality of retired professional football players. *Am J Cardiol* 109(6):889–896.
- Lehman EJ, Hein MJ, Baron SL, Gersic CM [2012]. Neurodegenerative causes of death among retired National Football League players. *Neurology* 79(19):1970–1974.

McCanlies EC, Fekedulegn D, Mnatsakanova A, Burchfiel CM, Sanderson WT, Charles LE, Hertz Picciotto I [2012]. Parental occupational exposures and autism spectrum disorder. *J Autism and Dev Disord* 42(11):2323–2334.

Jointly submitted:

- McWilliams LJ, Lenart PJ, Lancaster JL, Zeiner JR Jr. [2012]. National survey of the mining population. Part I: employees. Pittsburgh, PA: 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. 2012 152.
- McWilliams LJ, Lenart PJ, Lancaster JL, Zeiner JR Jr. [2012]. National survey of the mining population. Part II: mines. Pittsburgh, PA: 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. 2012 153.

## Exposure and Risk Assessment

B'Hymer C, Krieg E Jr., Cheever KL, Toennis CA, Clark JC, Kesner JS, Gibson RL, Butler MA [2012]. Evaluation and comparison of urinary metabolic biomarkers of exposure for the jet fuel JP 8. *J Toxicol Environ Health, A* 75(11):661–672.

Chen BT, Schwegler Berry D, McKinney W, Stone S, Cumpston JL, Friend S, Porter DW, Castranova V, Frazer DG [2012]. Multi walled carbon nanotubes: sampling criteria and aerosol characterization. *Inhal Toxicol* 24(12):798–820.

Noti JD, Lindsley WG, Blachere FM, Cao G, Kashon ML, Thewlis RE, McMillen CM, King WP, Szalajda JV, Beezhold DH [2012]. Detection of infectious influenza virus in cough aerosols generated in a simulated patient examination room. *Clin Infect Dis* 54(11):1569–1577.

## Methods and Laboratory Science

Hubbs AF, Cumpston AM, Goldsmith WT, Battelli LA, Kashon ML, Jackson MC, Frazer DG, Fedan JS, Goravanahally MP, Castranova V, Kreiss K, Willard PA, Friend S, Schwegler Berry D, Fluharty KL, Sriram K [2012]. Respiratory and olfactory cytotoxicity of inhaled 2,3 pentanedione in Sprague Dawley rats. *Am J Pathol* 181(3):829–844.

McKinney W, Jackson M, Sager TM, Reynolds JS, Chen BT, Afshari A, Krajnak K, Waugh S, Johnson C, Mercer RR, Frazer DG, Thomas TA, Castranova V [2012]. Pulmonary and cardiovascular responses of rats to inhalation of a commercial antimicrobial spray containing titanium dioxide nanoparticles. *Inhal Toxicol* 24(7):447–457.

Qi C, Kulkarni P [2012]. Miniature dual corona ionizer for bipolar charging of aerosol. *Aerosol Sci Tech* [Epub ahead of print, Sept 2012].