Volume 7 Number 12 December 2010

# Journal of ccupational Environmental

A Joint Publication of ACGIH® and AIHA®

NOW COVERED BY ISI

### IN THIS ISSUE

- Where's the Dust? Characterizing Locations of Azinphos-Methyl Residues in House and Vehicle Dust Among Farmworkers with Young Children
- Occupational Exposure to Polycyclic Aromatic
  Hydrocarbons in Airborne Particulate Matter: Validation
  and Application of a Gas Chromatography-Mass
  Spectrometry Analytical Method
- Occupational Exposure to Hazardous Airborne
  Pollutants: Effects of Air Mixing and Source Location
- Culture-Independent Characterization of Bacteria and Fungi in a Poultry Bioaerosol Using Pyrosequencing:
  A New Approach
- Effectiveness of Dust Control Methods for Crystalline Silica and Respirable Suspended Particulate Matter Exposure During Manual Concrete Surface Grinding
- Side-by-Side Comparison of Field Monitoring Methods for Hot Bitumen Emission Exposures: The German IFA Method 6305, U.S. NIOSH Method 5042, and the Total Organic Matter Method
- Occupational Mouse Allergen Exposure Among Non-Mouse Handlers







## Journal of Occupational and Environmental Hygiene

#### Volume 7, Number 12 December 2010

A Joint Publication of AIHA® and ACGIH®

#### **EDITOR IN CHIEF**

Mark Nicas, PhD, CIH mnicas@berkeley.edu

#### **EDITOR EMERITUS**

Michael S. Morgan, ScD, CIH

#### **EXECUTIVE COLUMN EDITOR**

Leo T. Old, CIH, PE, CHFM leo.old@stjude.org

#### **PUBLISHERS**

Tony Rizzuto, CAE trizzuto@acgih.org

Peter O'Neil, CAE poneil@aiha.org

#### MANAGING EDITOR

Ed Rutkowski erutkowski@aiha.org

#### ASSOCIATE EDITOR

Sheila Brown sbrown@aiha.org

#### SENIOR EDITORIAL ASSISTANT

Norma Firestone nstone@berkeley.edu

#### MISSION STATEMENT

The Journal of Occupational and Environmental Hygiene is published to enhance the knowledge and practice of occupational and environmental hygiene and safety. The journal provides a written medium for the communication of ideas, methods, processes, and research in the areas of occupational, industrial, and environmental hygiene; exposure assessment; engineering controls; occupational and environmental epidemiology, medicine, and toxicology; ergonomics; and other related disciplines.

#### http://oeh.informaworld.com





#### Department

Subject Index

Continuing Education — D83 "The Action Level"®

	Control of the last
Where's the Dust? Characterizing Locations of Azinphos-Methyl Residues in House and Vehicle Dust Among Farmworkers with Young Children  Gloria D. Coronado, William C. Griffith, Eric M. Vigoren, Elaine M. Faustman, and Beti Thompson	663
Occupational Exposure to Polycyclic Aromatic Hydrocarbons in Airborne Particulate Matter: Validation and Application of a Gas Chromatography-Mass Spectrometry Analytical Method Marzia Fioretti, Tamara Catrambone, Andrea Gordiani, and Renato Cabella	672
Occupational Exposure to Hazardous Airborne Pollutants: Effects of Air Mixing and Source Location Donghyun Rim and Atila Novoselac	683
Culture-Independent Characterization of Bacteria and Fungi in a Poultry Bioaerosol Using Pyrosequencing: A New Approach M.W. Nonnenmann, B. Bextine, S.E. Dowd, K. Gilmore, and J.L. Levin	693
Effectiveness of Dust Control Methods for Crystalline Silica and Respirable Suspended Particulate Matter Exposure During Manual Concrete Surface Grinding Farhang Akbar-Khanzadeh, Sheryl A. Milz, Cynthia D. Wagner, Michael S. Bisesi, April L. Ames, Sadik Khuder, Pam Susi, and Mahboubeh Akbar-Khanzadeh	700
Side-by-Side Comparison of Field Monitoring Methods for Hot Bitumen Emission Exposures: The German IFA Method 6305, U.S. NIOSH Method 5042, and the Total Organic Matter Method Anthony J. Kriech, Christoph Emmel, Linda V. Osborn, Dietmar Breuer, Adam P. Redman, Dieter Hoeber, Frank Bochmann, and Reinhold Ruehl	712
Occupational Mouse Allergen Exposure Among Non-Mouse Handlers Jean Curtin-Brosnan, Beverly Paigen, Karol A. Hagberg, Stephen Langley, Elise A. O'Neil, Mary Krevans, Peyton A. Eggleston, and Elizabeth C. Matsui	726
Author Index	735

744