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BIOGRAPHICAL SKETCH

6-15-2006

Daniel Almaguer, M.S.	Research Industrial Hygienist Tel: (513) 841-4232 E-mail: DAlmaguer@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Central Missouri State University, Warrensburg, MO	B.S.	1972-1976	Biology
Central Missouri State University, Warrensburg, MO	M.S.	1978-1980	Industrial Hygiene

Positions

- 1998-present Research Industrial Hygienist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
Industrial Hygienist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1980-1986 Industrial Hygienist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Chicago, IL

Other experience and professional memberships

Commissioned Officers Association of the United States Public Health Service
Central Missouri State University, Masters Degree Program, Industrial Hygiene Advisory Board
American Conference of Governmental Industrial Hygienists
Centers for Disease Control/Eastern Kentucky University, Diversity in Environmental Health Programs, Task Force Member

Peer-reviewed publications (most recent listed)

1. Sanderson WT, Almaguer D, Kirk LH [1999]: Ozone Induced Respiratory Illness during Portland Cement Kiln Repair. Scand J Work and Environ Health 1999, Vol 25, No 3, pages 227-232.
2. Mannino DM; Schreiber J; Aldous K; Ashley D; Moolenaar R; Almaguer D [1995]. Human exposure to volatile organic compounds: a comparison of organic vapor motoring badge levels with blood levels. International Archives of Occupational and Environmental Health, Vol. 67, pages 59-64.
3. Almaguer D; Wilcox T [1993]. Indoor Environmental Quality: AFrom the Ground Up.@ Applied Occupational and Environmental Hygiene Journal, Vol. 8, No. 8, pages 677-680.
4. Xiao HK; Levine SP; Kinnes G; Almaguer D [1990]. Evaluation of the Fourier Transform Infrared (FTIR) Spectrophotometer for Analysis of Trichloro-ethylene (TCE) in the Presence of Freon-113 in Carbon Disulfide Eluates of Charcoal Air Sampling Tubes. American Industrial Hygiene Association Journal, Vol. 51, No. 7, pages 402-404.
5. Xiao HK; Levine SP; D'Arcy JB; Kinnes G; Almaguer D [1990]. Comparison of the Fourier Transform Infrared (FTIR) Spectrophotometer and the Miniature Infrared Analyzer (MIRAN) for the Determination of Trichloroethylene (TCE) in the Presence of Freon-133 in Workplace Air. American Industrial Hygiene Association Journal, Vol. 51, No. 7, pages 395-401.

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BIOGRAPHICAL SKETCH

03 - 30 – 2006

Vinicius Cavalcanti dos Santos Antao, Ph.D.	Senior Service Fellow Tel: (304) 285 6165 Email: VAntao@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Petrópolis Faculty of Medicine – Brazil	M.D.	1986-1991	Medicine
Rio de Janeiro State University - Brazil	Residency	1994-1996	Pulmonology
Fluminense Federal University - Brazil	M.Sc.	1996-1998	Pulmonology
Gama Filho University - Brazil	Residency	1998	Occupational Medicine
São Paulo University – Brazil	Ph.D.	2000-2003	Pulmonology
Centers for Disease Control and Prevention	EIS Officer	2003-2005	Epidemiology

Positions

- 1993-1999 Physician at the Brazilian Army Central Hospital, in the Pulmonology Service and the Unit of Clinical Intermediate Care
- 1997-1998 Pulmonologist of the Rio de Janeiro Municipal Office for Health
- 1998-2003 Member of the State Technical Commission of Occupational Lung Diseases - Rio de Janeiro State Office for Health, responsible for advisement and creation of regulatory norms and protocols, regarding occupational lung diseases over the State
- 1998-2002 Pulmonologist of the Rio de Janeiro State Office for Justice and the Interior
- 2000-2003 Professor of Post Graduate Studies of the Institute of Social Medicine - Rio de Janeiro State University
- 1996-2003 Professor of the Post Graduate Course of Occupational Medicine at Gama Filho University
- 1996-2003 Associate Professor of Pulmonology – Faculty of Medical Sciences – Rio de Janeiro State University
- 2003-2005 Epidemic Intelligence Service (EIS) Officer - Field Studies Branch – Division of Respiratory Disease Studies – National Institute for Occupational Safety and Health – Centers for Disease Control and Prevention (CDC), Morgantown, WV
- 2004-Date Adjunct Assistant Professor – Community Medicine Department – West Virginia University
- 2005-Date Senior Service Fellow – Surveillance Branch - Division of Respiratory Disease Studies – National Institute for Occupational Safety and Health – Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

- 1996-1998 Masters Scholarship from CNPq - Brazilian National Research Council
- 2001-2003 PhD Scholarship from CNPq - Brazilian National Research Council
- 2002 Travel grant to UC Davis, Fogarty Foundation
- 2002 ERS Silver Sponsorship, European Respiratory Society
- 2005 Nominated for the Alexander D. Langmuir Prize Manuscript Award, Centers for Disease Control and Prevention (CDC)
- 2005-2007 Co-Principal Investigator, NIOSH/National Occupational Research Agenda grant, Prevention of Flock Workers Lung Disease by Dust Control, \$50,000

Other Experience and Professional Memberships

- Reviewer of Archives of Medical Research
- Member of the International Panel of Reviewers of Medical Science Monitor: International Medical Journal of Experimental and Clinical Research
- Member of the EIS Alumni Association Member of the American Thoracic Society

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Member of the European Respiratory Society

Member of the Brazilian Thoracic Society

Affiliate Member of the American College of Chest Physicians (former)

Peer Reviewed Publications

1. Ruffino R., Costa C.H., Antao V.C., Pinheiro G.A., Jansen J.M.: Height/arm-span ratio: a value for spirometric studies in Brazilians (in Portuguese). *Pulmão RJ*, 5:40-44, 1996.
2. Antao V.C., Pinheiro G.A., Garrido E., Sapienza J.C., Jansen J.M.: Pulmonary lesion following ammonia inhalation (in Portuguese) *Pulmão RJ*, 6:101-103, 1997.
3. Antao V.C., Pinheiro G.A., Lopes A.J., Jansen J.M.: Bronchial asthma in the winter (in Portuguese) *Ars Cvrandi*; 34:46-50, 2001.
4. Antao V.C., Pinheiro G.A., Jansen J.M.: Broncholithiasis and lithoptysis associated with silicosis. *Eur Respir J*, 20:1057-1059, 2002.
5. Pinheiro G.A., Antao V.C., Monteiro M.M., Capelozzi V.L., Terra-Filho M.: Mortality from pleural mesothelioma in Rio de Janeiro, Brazil, 1979-2000: estimation from death certificates, hospital records, and histopathologic assessments. *Int J Occup Environ Health*, 9:147-152, 2003.
6. Antao V.C., Pinheiro G.A., Kavakama J., Terra-Filho M.: High prevalence of silicosis among stone carvers in Brazil. *Am J Ind Med*, 45:194-201, 2004.
7. Pinheiro G.A., Antao V.C., Wood J.M., Attfield M.D.: Changing patterns of pneumoconiosis mortality--United States, 1968-2000. *MMWR*, 53:627-632, 2004. (reprinted in *JAMA* 2004;292:795-796)
8. Pinheiro G.A., Antao V.C., Bang K.M., Attfield M.D.: Malignant mesothelioma surveillance: a comparison of ICD 10 mortality data with SEER incidence data in nine areas of the United States. *Int J Occup Environ Health*, 10:251-255, 2004.
9. Pinheiro G.A., Antao V.C., Muller N.L.: Tracheobronchopathia osteochondroplastica in a patient with silicosis: CT, bronchoscopy, and pathology findings. *J Comput Assist Tomogr*, 28:801-803, 2004.
10. Antao V.C., Pinheiro G.A., Terra-Filho M., Kavakama J.I., Muller N.L.: High resolution CT in silicosis: correlation with radiographic findings and functional impairment. *J Comput Assist Tomogr*, 29:350-356, 2005.
11. Antao V.C., Petsonk E.L., Sokolow L.Z., Wolfe A.L., Pinheiro G.A., Attfield M.D.: Rapidly progressive coal workers' pneumoconiosis in the United States: geographic clustering and other factors. *Occup Environ Med*, 62:670-674, 2005.

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BIOGRAPHICAL SKETCH

NAME James M. Antonini		POSITION TITLE Toxicologist – JGA6@cdc.gov – (304) 285-6244	
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown, WV	B.S.	1982-1987	Pharmacy
West Virginia University, Morgantown, WV	Ph.D.	1989-1993	Pharmacology & Toxicology
Harvard School of Public Health, Boston, MA	Post-Doc	1994-1997	Environmental Health

Positions

1997-Present	Toxicologist; National Institute for Occupational Safety and Health
1997-Present	Adjunct Faculty, School of Pharmacy, West Virginia University
1994-1997	Post-Doctoral Fellow, Harvard School of Public Health
1989-1993	Graduate Assistant, West Virginia University, Dept. of Pharmacology and Toxicology

Other Experience and Professional Memberships

2004-Present	American Welding Society, Vice Chair of Safety and Health Committee
1998-Present	Safety and Health Committee of the American Welding Society
1991-Present	Member, Society of Toxicology

Honors

2006	Young Investigator Award 2006; Society of Toxicology Inhalation Specialty Section
2006	American Welding Society Safety and Health Award
2006	NIOSH Alice Hamilton Award; Best Paper Biological Science Category: Unusual Inflammatory and Fibrogenic Pulmonary Responses to Single-walled Carbon Nanotubes
2000	NIOSH Alice Hamilton Award; Best Paper Biological Science Category: Role of Reactive Oxygen Species and p53 in Chromium(VI)-Induced Apoptosis
1991	Graduate Student Achievement Award for Academic Performance

Selected peer-reviewed publications (in chronological order)

(Publications selected from 70 peer-reviewed publications)

- Antonini JM, Krishna Murthy GG, Rogers RA, Albert R, Ulrich GD, and Brain JD. Pneumotoxicity and pulmonary clearance of different welding fume particles after intratracheal instillation in the rat. *Toxicol Appl Pharmacol* 40: 188-199, 1996.
- Antonini JM, Krishna Murthy GG, and Brain JD. Lung responses to different welding fumes: Effect on injury, inflammation, and the release of tumor necrosis factor- and interleukin-1 β . *Exp Lung Research* 23: 205-227, 1997.
- Antonini JM, Charron TG, Lai J, Roberts JR, Blake TL, and Rogers RA. Application of laser scanning confocal microscopy in the analysis of particle-induced pulmonary fibrosis. *Toxicol Sci* 51: 126-134, 1999.
- Antonini JM, Lawryk NJ, Krishna Murthy GG, and Brain JD. Effect of welding fume solubility on lung macrophage viability and function in vitro. *J Toxicol Environ Health* 58: 343-363, 1999.
- Ye J, Wang S, Leonard SS, Sun Y, Butterworth L, Antonini JM, Ding M, Vallyathan V, Castranova V, and Shi X. Role of Reactive Oxygen Species and p53 in Chromium (VI)-induced Apoptosis. *J Biol Chem* 274: 34974-34980, 1999.

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- Antonini JM, Hemenway DR, and Davis GS. Quantitative image analysis of lung connective tissue in murine silicosis. *Exp Lung Research* 26: 71-88, 2000.
- Yang H-M, Antonini JM, Barger MW, Butterworth L, Roberts JR, Ma JKH, Castranova V, and Ma JYC. Diesel exhaust particles suppress macrophage function and slow the pulmonary clearance of *Listeria monocytogenes* in rats. *Environ Health Perspect* 109: 515-521, 2001.
- Antonini JM, Roberts JR, Clarke RW, Yang H-M, Barger MW, Ma JYC, and Weissman DN. Intratracheal instillation of *Listeria monocytogenes*: Effect of age on respiratory defense mechanisms and pulmonary bacterial clearance in Fischer 344 rats. *Chest* 120: 240-249, 2001.
- Taylor MD, Roberts JR, Hubbs AF, Reasor MJ, and Antonini JM. Quantitative image analysis of drug-induced lung fibrosis using laser scanning confocal microscopy. *Toxicol Sci* 67:295-302, 2002.
- Antonini JM, Roberts JR, Jernigan MR, Yang H-M, Ma JYC, and Clarke RW. Residual oil fly ash increases the susceptibility to infection and severely damages the lungs after pulmonary challenge with a bacterial pathogen. *Toxicol Sci* 70:110-119, 2002.
- Antonini JM. Health effects of welding. *Crit Rev Toxicol* 33:61-103, 2003.
- Antonini JM, Lewis AB, Roberts JR, and Whaley DA. Pulmonary effects of welding fumes: review of worker and experimental animal studies. *Am J Ind Med* 43:350-360, 2003.
- Taylor MD, Antonini JM, Roberts JR, Leonard SS, Shi X, Gannett PM, Hubbs AF, and Reasor MJ. Intratracheal amiodarone administration to F344 rats directly damages lung airway and parenchymal cells. *Toxicol Appl Pharmacol* 188:92-103, 2003.
- Tinkle SS, Antonini JM, Rich BA, Roberts JR, Salmen R, DePree K, and Adkins EJ. Skin as a route of exposure and sensitization in chronic beryllium disease. *Environ Health Perspect* 111:1202-1208, 2003.
- Taylor MD, Roberts JR, Leonard SS, Shi X, and Antonini JM. Effects of welding fumes of differing composition and solubility on free radical production and acute lung injury and inflammation in rats. *Toxicol Sci* 75:181-191, 2003.
- Antonini JM, Taylor MD, Zimmer AT, and Roberts JR. Pulmonary responses to welding fumes: Role of metal constituents. *J Toxicol Environ Health* 67:233-249, 2004.
- Roberts JR, Taylor MD, Castranova V, Clarke RW, and Antonini JM. Soluble metals associated with residual oil fly ash increase morbidity and lung injury after bacterial infection in rats. *J Toxicol Environ Health* 67:251-263, 2004.
- Antonini JM, Taylor MD, Millecchia L, Ebeling AR, and Roberts JR. Suppression in lung defense responses after bacterial infection in rats pretreated with different welding fumes. *Toxicol Appl Pharmacol* 200:206-218, 2004.
- Shvedova AA, Kisin ER, Mercer R, Murray AR, Johnson VJ, Potapovich AI, Tyurina YY, Gorelik O, Arepalli S, Schwegler-Berry D, Hubbs AF, Antonini J, Evans DE, Ku B-K, Ramsey D, Maynard A, Kagan VE, Castranova V, and Baron P. Unusual inflammatory and fibrogenic pulmonary responses to single walled carbon nanotubes in mice. *Am J Physiol- Lung Cell Mol Physiol* 289:L698-L708, 2005.
- Antonini JM, Leonard SS, Roberts JR, Solano-Lopez C, Young S-H, Shi X, and Taylor MD. Effect of Stainless Steel Manual Metal Arc Welding Fume on Free Radical Production, DNA Damage, and Apoptosis Induction. *Mol Cell Biochem* 279:17-23, 2005.
- Wang L, Scabilloni JF, Antonini JM, Castranova V, Rojanasakul Y, Roberts JR, Zhang Z, and Mercer RR. Role of lung surfactant in phagocytic clearance of apoptotic cells by macrophages in rats. *Lab Invest* 86:458-466, 2006.
- Antonini JM, Santamaria A, Jenkins NT, Albin E, and Lucchini R. Fate of manganese associated with the inhalation of welding fumes: Potential neurological effects. *Neurotoxicol* 27:304-310, 2006.
- Solano-Lopez C, Zeidler-Erdely PC, Hubbs AF, Reynolds SH, Roberts JR, Taylor MD, Young S-H, Castranova V, and Antonini JM. Welding fume exposure and associated inflammatory and hyperplastic changes in the lungs of tumor susceptible A/J mice. *Toxicol Pathol* 34:364-372, 2006.

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Antonini JM, O'Callaghan JP, Miller DB. Development of an animal model to study the potential neurotoxic effects associated with welding fume inhalation. *Neurotoxicol* 27:745-751, 2006.

BIOGRAPHICAL SKETCH

5-30-2006

Kevin Ashley, Ph.D.	Research Chemist Tel: (513)841-4402 E-mail: KAshley@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Arizona, Tucson, AZ	BS	1976-1980	Biology
Northern Arizona University, Flagstaff, AZ	MS	1981-1984	Chemistry
University of Utah, Salt Lake City, UT	PhD	1984-1987	Chemistry

Positions

1991-present Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
1989 (summer) Visiting Assistant Professor, Department of Chemistry, University of Utah, Salt Lake City, UT
1988 (summer) Visiting Faculty Scientist, IBM Almaden Research Center, San Jose, CA
1988-1991 Assistant Professor, Department of Chemistry, San Jose State University, San Jose, CA

Honors

2004 Foreign Researcher Invitation Award, Japan Industrial Safety and Health Association
2004 National Award for Excellence in Technology Transfer, Federal Laboratory Consortium
2003 Award of Merit, ASTM International
2001, 2003 Invention Award, CDC/NIOSH
1998, 2000 Honorable Mention, Alice Hamilton Award, CDC/NIOSH
1996 Award of Appreciation, ASTM International
1995 Researcher of the Year Award, Lead Tech Conference
1989 Meritorious Performance and Professional Promise Award, San Jose State University
1987 Graduate Research Presentation Award, University of Utah

Other experience and professional memberships

Chair, ASTM International Subcommittee D22.04 on Sampling and Analysis Workplace Atmospheres (2004-)
Column Editor and Editorial Board Member, *Journal of Occupational and Environmental Hygiene* (2004-)
Guest Editor, *Journal of ASTM International* (2005)
US Delegate, International Organization for Standardization (ISO), Workplace Air Quality Subcommittee (1995-)
Member, American Chemical Society (1981-); Society for Electroanalytical Chemistry (1989-); Beryllium Health & Safety Committee (2002-); American Conference of Governmental Industrial Hygienists (2003-)

Peer-reviewed publications (most recent listed)

1. Creek KL, Whitney G, Ashley K [2006]: Vacuum sampling techniques for industrial hygienists, with emphasis on beryllium dust sampling. *J. Environ. Monit.* 8, in press.
2. Brisson MJ, Ashley K, Stefaniak A, Ekechukwu AA, Creek KL [2006]: Trace-level beryllium analysis in the laboratory and in the field – State of the art, challenges, and opportunities. *J. Environ. Monit.* 8, in press.
3. Agrawal A, Cronin J, Tonazzi J, McCleskey TM, Ehler DS, Minogue EM, Whitney G, Brink C, Burrell AK, Warner B, Goldcamp MJ, Schlecht PC, Sonthalia P, Ashley K [2006]: Validation of a standardized

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- portable fluorescence method for determining trace beryllium in workplace air and wipe samples. *J. Environ. Monit.* 8, in press.
4. Drake PL, Marcy AD, Ashley K [2006]: Evaluation of a standardized method for determining soluble silver in workplace air samples. *J. Environ. Monit.* 8, 134-139.
 5. Brisson MJ, Ekechukwu AA, Ashley K, Jahn SD [2006]: Opportunities for standardization of beryllium sampling and analysis. *J. ASTM Int.* 3(1), 12 pp. [DOI: 10.1520/JAI13157]
 6. Ashley K, McCleskey TM, Brisson MJ, Goodyear G, Cronin J, Agrawal A [2005]: Interlaboratory evaluation of a portable fluorescence method for the determination of trace beryllium in the workplace. *J. ASTM Int.* 2(9), 8 pp. [DOI: 10.1520/JAI13156]
 7. Ashley K, Brisson MJ, Jahn SD [2005]: Standard methods for beryllium sampling and analysis – Availabilities and needs. *J. ASTM Int.* 2(9), 12 pp. [DOI: 10.1520/JAI13169]
 8. Goldcamp MJ, Ashley K, Edison SE, Pretty J, Shumacher J [2005]: A bis-oxime derivative of diaza-18-crown-6 as an ionophore for silver ion. *Electroanalysis* 17: 1015-1018.
 9. Taylor L, Ashley K, Jones RL, Deddens JA [2004]: Field evaluation of a portable blood-lead analyzer in workers living at high altitude – A follow-up investigation. *Am. J. Ind. Med.* 46: 656-662.
 10. Hazelwood KJ, Drake PL, Ashley K, Marcy D [2004]: Field method for the determination of insoluble or total hexavalent chromium in workplace air. *J. Occup. Environ. Hyg.* 1: 613-619.
 11. Taylor L, Jones RL, Ashley K, Deddens JA, Kwan L [2004]: Comparison of capillary earlobe and venous blood monitoring for occupational lead surveillance. *J. Lab. Clin. Med.* 143: 217-224.
 12. Ashley K, Howe AM, Demange M, Nygren O [2003]: Sampling and analytical considerations for the determination of hexavalent chromium in workplace air. *J. Environ. Monit.* 5: 707-716.
 13. Drake PL, Lawryk NJ, Ashley K, Sussell AL, Hazelwood KJ, Song R [2003]: Evaluation of two portable lead-monitoring methods at mining sites. *J. Hazard. Mater.* 102: 29-38.
 14. Ashley K [2003]: Developments in electrochemical sensors for occupational and environmental health applications. *J. Hazard. Mater.* 102: 1-12.
 15. Ashley K, Song R, Schlecht PC [2002]: Performance criteria and characteristics of field screening test methods. *Am. Lab.* 34(12): 32-39.
 16. Sussell A, Ashley K [2002]: Field measurement of lead in workplace air and paint chip samples by ultrasonic extraction and portable anodic stripping voltammetry. *J. Environ. Monit.* 4: 156-161.
 17. Ashley K, Andrews RN, Cavazos L, Demange M [2001]: Ultrasonic extraction as a sample preparation technique for elemental analysis by atomic spectrometry. *J. Anal. At. Spectrom.* 16: 1147-1153.
 18. Taylor L, Jones RL, Kwan L, Deddens JA, Ashley K, Sanderson WT [2001]: Evaluation of a portable blood lead analyzer with occupationally exposed populations. *Am. J. Ind. Med.* 40: 354-362.
 19. Ashley K, Wise TJ, Mercado W, Parry DB [2001]: Ultrasonic extraction and field-portable anodic stripping voltammetric measurement of lead in dust wipe samples. *J. Hazard. Mater.* 83: 41-50.
 20. Song R, Schlecht PC, Ashley K [2001]: Field screening test methods – Performance criteria and performance characteristics. *J. Hazard. Mater.* 83: 29-39. (1.-42. 1985-2000)

Other publications

Author / Co-author of 21 international voluntary consensus standards (4 ISO & 17 ASTM International, 1991-)
Author / Co-author 15 technical reports & 6 NIOSH analytical methods (1987-)
Author / Co-author of 7 chapters, 6 editorials, 5 comments and 6 proceedings papers (1991-)

Patents

Wang J, Ashley K [2004]: *Method for the Determination of Hexavalent Chromium using Ultrasonic Extraction and Strong Anion Exchange Solid Phase Extraction*, U.S. Pat. 6,808,931.
Esswein EJ, Boeniger MF, Ashley K [2001]: *Handwipe Disclosing Method for the Presence of Lead*, U.S. Pat. 6,248,593. (Licensed and commercialized by SKC, Inc., 2003; and by JNJ Industries, 2006)

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Symposia organized

1. "ASTM International Symposium on Beryllium Sampling and Analysis," Reno, NV (2005) [Creek K, Hamel D, Brisson M, Ekechukwu A, co-chairs].
2. "International Mini-Symposium on Sampling and Analysis of Workplace Aerosols," CDC/NIOSH, Cincinnati, OH (2002).
3. "On-Site Analysis - A Performance-Based Approach," Pittcon, New Orleans, LA (2001).
4. "Industrial Hygiene Chemistry," CMACS 2000 Conference, Covington, KY (2000).
5. "New Techniques in Industrial Hygiene Chemistry," Pittcon, New Orleans, LA (2000). [Danchik R, co-arranger]
6. "Physical Electrochemistry," Pacific Conference on Chemistry and Spectroscopy, San Francisco, CA (1990).

Presentations

97 presentations at conferences, meetings and symposia (1987-)

Foreign language

Fluent in Spanish

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BIOGRAPHICAL SKETCH

03-30-2006

Michael D. Attfield, Ph.D.	Chief Surveillance Branch Tel: (304) 285 5737 E-Mail: MAttfield@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Wales	B.Sc.	1964-68	Statistics
West Virginia University, Morgantown, WV	Ph.D.	1980-86	Industrial Hygiene

Positions

- 1969-1977 Statistician, Institute of Occupational Medicine, Edinburgh, Started as junior statistician - promotion through to senior statistician.
- 1977 Senior Statistician, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
- 1992 Senior Epidemiologist, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
- 1998 Deputy Branch Chief, Field Studies Branch, Division of Respiratory Disease Studies, National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
- 2002 Branch Chief, Surveillance Branch, Division of Respiratory Disease Studies, National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

- 1993 NIOSH Hamilton Award Nominee
- 1994 NIOSH Hamilton Award Nominee
- 1995 NIOSH Hamilton Award Joint Winner
- 1996 NIOSH Hamilton Award Nominee
- 1997 NIOSH Hamilton Award Joint Winner
- 2005 CDC Shepard Award Nominee

Other Experience and Professional Memberships

- 1969-Date Fellow of the Royal Statistical Society (FSS)
- Date Adjunct associate professor, Dept. of Community Medicine, West Virginia University
- Date Adjunct assistant Professor, Dept of Statistics and Computer Science, West Virginia University

Peer Reviewed Publications

1. Attfield M.D., Ross D.S.: The radiographic health of electric-arc welders. *Br Ind Med*, 35:117-122, 1978.
2. Attfield M.D., Beckett S.T.: Void-counting in assessing membrane filter samples of asbestos fibres. *Ann Occup Hyg*, 27 3:273-282, 1983.
3. Attfield M.D., Reger R.B., Glenn R.: The incidence and progression of pneumoconiosis over nine years in US coalminers. *Am J Ind Med*, 6:407-416, 1984.
4. Attfield M.D.: Longitudinal decline in FEV₁ in US coalminers. *Thorax*, 40:132-137, 1985.
5. Attfield M.D., Moring K.: An investigation into the relationship between coalworkers' pneumoconiosis and dust exposure in U.S. coal miners. *Am Ind Hyg Assoc J*, 1992.

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6. Attfield M.D., Hodous T.K.: Pulmonary function of U.S. coal miners related to dust exposure estimates. *Amer Rev Resp Dis*, 145:605-609, 1992.
7. Attfield M.D.: British data on coal miners' pneumoconiosis and relevance to US conditions. *Am J Public Health*, 82:978-983 1992.
8. Attfield M.D., Althouse R.B.: Surveillance data on US coal miners' pneumoconiosis, 1970 to 1986. *Am J Public Health* 82:971-977, 1992.
9. Attfield M.D., Castellan R.B.: Epidemiological data on US coal miners' pneumoconiosis, 1960 to 1988. *Am J Public Health*, 82:964-970, 1992.
10. Attfield M.D., Hewett P.: Exact expressions for the bias and variance of estimators of the mean of a lognormal distribution. *Am Ind Hyg Assoc J*, 53:432-435, 1992.
11. Attfield M.D., Wagner G.R.: A report on a recent workshop on the NIOSH B reader certification program. *JOM*, 34:875-878, 1992.
12. Attfield M.D., Vallyathan V., Green F.H.Y.: Radiographic appearances of small opacities and their correlation with pathology grading of macules, nodules, and dust burden in the lungs. Inhaled Particles VII. Edinburgh, Scotland, September 1991. *Ann Occup Hyg*, 27 Suppl. 1:783-790, 1994.
13. Attfield M.D., Seixas N.: Prevalence of pneumoconiosis and its relationship to dust exposure in a cohort of U.S. coal miners and ex-miners. *AJIM*, 27:137-151, 1995.
14. Werner M., Attfield M.: Effect of different grouping strategies in developing estimates of personal exposures: Specificity versus precision. *Appl Occup Environ Hyg*, 15:21-25, 2000.
15. Attfield M.D., Costello J.: Quantitative exposure-response for silica dust and lung cancer in Vermont granite workers. *Am J Ind Med*, 45:129-38, 2004.
16. Attfield M.D., Petsonk E.L.: Proficiency, procedures and "B" readers – classifications of radiographs for pneumoconiosis. *Acad Radiol*, 11:1323-1325, 2004.
17. Chen W., Hnizdo E., Chen J.Q., Attfield M.D., Gao P., Hearl F., Lu J., Wallace W.E.: Risk of silicosis in cohorts of Chinese tin and tungsten miners, and pottery workers (I): An epidemiological study. *Am J Ind Med*, 48 1:1-9, 2005.
18. Wang M-L., Wu Z-E., Du Q-G., Petsonk E.L., Peng K-L., Li Y-D., Li Y-D., Han G-H., Attfield M.D.: A prospective cohort study among new Chinese coal miners: the early pattern of lung function change. *Occup Environ Med*, 2:800-805, 2005.
19. Daroowalla F., Wang M.L., Piacitelli C., Attfield M.D., Kreiss K.: Flock workers' exposures and respiratory symptoms in five plants. *Am J Indust Med*, 47:144-152, 2005.
20. Hnizdo E., Yu L., Freyder L., Attfield M., Lefante J., Glindmeyer H.W.: Monitoring of the precision of longitudinal lung function measurements, *Occup Environ Med*, 62:695-701, 2005.
21. Bang K.M., Mazurek J.M., Attfield M.D.: Silicosis mortality, prevention and control - United States, 1968-2002. *MMWR* 54:401-405, 2005.

Book Chapters and Invited Reviews

Attfield M.D., Castranova V., Wagner G.R.: Respiratory disease in coal miners. in: Environ Occup Med, Fourth edition. Rom W.M., In press.

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BIOGRAPHICAL SKETCH

5-30-2006

Paul A. Baron, Ph.D.		Aerosol Scientist Tel: (513)841-4278 E-mail: PBaron@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Illinois, Champagne-Urbana	BS	1961-1965	Chemistry
University of California, Santa Barbara	Ph.D.	1966-1970	Physical Chemistry

Positions

- 2004-present Contract employee, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1976-2004 Physical Scientist, Aerosol Research Team, Division of Applied Research and Technology, National Institute for Occupational Safety and Health, Cincinnati, Ohio
- 1990-1991 Acting Section Chief, Monitoring Research Section
- 1988-1991 Volunteer Professor, Department of Environmental Health, University of Cincinnati, Cincinnati, OH

Honors

- 2006 Alice Hamilton Award, Biological Sciences Category
- 2006 Public Health Service Meritorious Service Medal
- 1988, 1987 Public Health Service Commendation Medal
- 1988 Greater Cincinnati Outstanding Federal Employee of the Year, Scientific Category
- 1992 Public Health Service Outstanding Service Medal
- 1991, 1993, 1994, 2000 Outstanding Aerosol Paper of the Year Award, Aerosol Technology Committee, American Association for Aerosol Research
- 1991, 1992, 1999 Nominee, Alice Hamilton Award
- 1995, 1997, 1999, 2006 Nominee Charles C. Shepard Award (CDC)

Other experience and professional memberships

- Member, American Conference of Governmental Industrial Hygienists (1978-present)
- Member, American Industrial Hygiene Association (1978-2004)
- Member, Commissioned Officer Association (1980-2004)
- Associate Editor, Aerosol Science and Technology Journal (1993-1998)
- Member, Board of Directors, American Association for Aerosol Research (1994-1997)
- Member (1989-2004) and Chair (1992-1995) Instrumentation Committee, American Association for Aerosol Research
- Member, (1979-1994) and Vice-chair (1982-1983), Aerosol Technology Committee, American Industrial Hygiene Association
- Member, International Standards Organization Working Group for Inorganic Fiber measurements (1979-1984)
- Member and Chair, World Health Organization Working Group on Reference Methods and Quality Assurance for Work Environment Monitoring: Health Risk-related Fibres. (1991-1994)

Peer-reviewed publications (most recent listed)

1. Zeidler-Erdely, P., W. J. Calhoun, B. T. Ameredes, M. P. Clark, G. J. Deye, P. Baron, W. Jones, T. Blake, V. Castranova. 2006. In vitro Cytotoxicity of Manville Code 100 Glass Fibers: Effect of Fiber Length on Human Alveolar Macrophages. Part. Fibre Tox. 3:5.
2. Wang, Z., P. K. Hopke, P. A. Baron, G. Ahmadi, Y.-S. Cheng, G. J. Deye, W.-C. Su. 2005. Fiber Classification and the Influence of Average Air Humidity. Aerosol Sci. Technol. 39(11):1056-1063.

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3. Maynard, A. D., P. A. Baron, M. Foley, A. A. Shvedova, E. R. Kisin, and V. Castranova. 2004. Exposure to Carbon Nanotube Material I: Aerosol Release During the Handling of Unrefined Single Walled Carbon Nanotube Material. *J. Tox. Environ. Health.* 67(1):87-107.
4. Shvedova, A. A., E. R. Kisin, A. R. Murray, V. Z. Gandelsman, A. D. Maynard, P. A. Baron, and V. Castranova. 2003. Exposure to Carbon Nanotube Material II: Assessment of the Biological Effects of Nanotube Materials Using Human Keratinocyte Cells. *J. Tox. Environ. Health.* 66(20):1909-1926.
5. Mainelis, G., K. Willeke, P. Baron, S. Grinshpun, and T. Reponen. 2002. "Induction Charging and Electrostatic Classification of Micrometer-Size Particles for Investigating the Electrobiological Properties of Airborne Microorganisms." *Aerosol Sci. Technol.* 36(4) 479-491.
6. Mainelis, B., K. Willeke, P. Baron, S. Grinshpun, and T. Reponen. 2002. "Classification of Micrometer-Size Particles for Investigating the Electrobiological Properties of Airborne Microorganisms." *Aerosol Sci. Technol.* 36(4): 1-13.
7. Mainelis, G., R. L. Gorny, T. Reponen, M. Trunov, S. Grinshpun, P. Baron, J. Yadav, and K. Willeke. 2002. "Effect of Electrical Charges and Fields on Injury and Viability of Airborne Bacteria." *Biotechnol. Bioeng.* 79(2): 229-241.
8. Baron, P. A., A. Khanina, S. and Grinshpun. 2002. "Preventing Leakage and Dust Loss in Plastic Filter Cassettes: A Particle Count Leak Test" *Aerosol Sci. Technol.* (2002) 36(8) 857-865.
9. Baron, P. A. and J. Bennett. 2002. Calculation of Leakage in Plastic Filter Cassettes. *Aerosol Sci. Technol.* 36(5): 632-641.
10. Gao, P., B. T. Chen., P. A. Baron, and S. C. Soderholm. 2002. "A Numerical Study of the Performance of an Aerosol Sampler with a Curved, Blunt, Multi-Orificed Inlet." *J. Aerosol Sci.* 36(5): 540-553.
11. Shulte, P. A., F. L. Rice, R. J. Key-Schwartz, D. L. Bartley, P. A. Baron, P. C. Schlecht, M. G. Gressel, A. S. Echt. 2002. "NIOSH Hazard Review: Health Effects of Occupational Exposure to Respirable Crystalline Silica." Cincinnati: National Institute for Occupational Safety and Health. Pub. No. 2002-129.
12. Mainelis, G., K. Willeke, P. Baron, T. Reponen, S. Grinshpun, R. L. Gorny, S. Trakumas. 2001. "Electrical Charges on Airborne Microorganisms." *J. Aerosol Sci.* 32(9) 1087-1110.
13. Chen, C.-C., T.-S. Yu, T.-S. Shih, P. Baron. 2001. "Computer Simulation of Particle Count Overlap in Fiber Count Samples." *AIHAJ* 62(3): 281-287.
14. Zimmer, A. P. Biswas and P. Baron. 2001. "The Influence of Operating Parameters on Number-Weighted Aerosol Size Distribution Generated from a Gas Metal Arc Welding Process." *J. Aerosol Sci.* 33(3): 519-532.
15. Baron, P. A. 1991. Measurement of Airborne Fibers: A Review. *Ind. Health (Japan).* 39(2): 39-50.
16. Aizenberg, V. A., K. Choe, S. A. Grinshpun, K. Willeke, and P. A. Baron. 2001. Evaluation of Personal Aerosol Samplers Challenged with Large Particles. *J. Aerosol Sci.* 32(6) 779-793.
17. Ye, J., P. Zeidler, S-H. Young, A. Martinez, V. A. Robinson, W. Jones, P. Baron, X. Shi, V. Castranova. 2001. "Activation of Mitogen-activated Protein Kinase P38 and Extracellular Signal-regulated Kinase is involved in Glass Fiber-induced Tumor Necrosis Factor- α Production in Macrophages." *J. Biol. Chem.* 276(7): 5360-5367.
18. Zeidler, P. C., J. Ye, W. Jones, P. Baron, A. Martinez, V. A. Robinson, D. P. Landsittel, and V. Castranova. 2001. "Use of Size-Selected Fibers to Evaluate the Contribution of Length Versus Chemistry in Fiber Cytotoxicity." *The Toxicologist.* 60(1): A942. (1.-57. 1965-2000)

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Other publications

Author / Co-author of 1 international voluntary consensus standard (WHO, 1991-)

Author / Co-author 24 technical reports and other publications & 2 NIOSH analytical methods (1977-)

Editor of 1 book, 2 editions (1993-2001)

Author / Co-author of 13 chapters, 1 comment, and 9 proceedings papers (1976-)

Presentations

63 presentations at conferences, meetings and symposia (1975-)

Software

1 Program distributed as freeware.

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BIOGRAPHICAL SKETCH

3-2005

Timothy W. Beck	General Engineer Tel: 412-386-4776 E-Mail: TBeck@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Mining Engineering, University of Missouri-Rolla	B.S.	2000	

Positions

2003 - Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Other Experience and Professional Memberships

Society of Mining, Metallurgy, and Exploration

Peer Reviewed Publications:

Goodman GVR, Beck TW, Pollock DE [2006]. The Effects of Water Spray Placement for Controlling Respirable Dust and Face Methane Concentrations. Submitted to J. South African Mine Ventilation Society.

Conference Proceedings:

1. Goodman GVR, Beck TW, Pollock DE, Colinet JF, Organiscak JA [2006]. Emerging Technologies Control Respirable Dust Exposures for Continuous Mining and Roof Bolting Personnel. Proceedings, 11th US/NA Mine Ventilation Symp., Penn State University, June.
2. Goodman GVR, Pollock DE, Beck TW [2004]. "A comparison of a directional spray system and a flooded-bed scrubber for controlling respirable dust exposures and face gas concentrations." Proceedings, 10th US/North American Mine Vent. Symp., May 17-19, Anchorage, AK, pp. 241-248.

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BIOGRAPHICAL SKETCH

03-30-2006

Lu-Ann F. Beeckman-Wagner, Ph.D.	Research Physiologist Tel: (304) 285-5792 E-mail: LBeeckman@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Massachusetts/Amherst	B.S.	1979	Physical Education
The Pennsylvania State University	M.S.	1985	Exercise Physiology
The Pennsylvania State University	Ph.D.	1990	Exercise Physiology

Positions

- 1991-1992 Visiting Assistant Professor of Exercise Physiology, School of Physical Education, West Virginia University, Morgantown, WV
- 1992-Date Research Physiologist, Clinical Investigations Branch/Laboratory Research Branch/Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Center For Disease Control and Prevention (CDC), Morgantown, WV

Peer Reviewed Publications

1. Wang, M.L., Petsonk, E.L., Attfield, M.D., Short, S.R., Beeckman, L.F., Bonnett, B., Hankinson, J.L.: Miners with clinically important declines in FEV₁: Analysis of data from the US national coal study. *Am Rev Respir Dis*, 147:A899, 1993.
2. Wang, M.L., Petsonk, E.L., Attfield, M.D., Short, S.R., Beeckman, L.F., Bonnett, B., Hankinson, J.L.: Miners with clinically important declines in FEV₁: Analysis of data from the US National Coal Study. Proceedings of the 4th Respirable Dust Symposium, Pittsburgh, PA, November 8 - 10, 1994.
3. Wang M-L., Petsonk E.L., Beeckman L.F., Wagner G.R.: Clinically important FEV₁ declines among coal miners: An exploration of previously unrecognized determinants. *Occup Environ Med*, 56 12:837-844, 1999.
4. Beeckman, L.F., Wang, M.L., Petsonk, E.L., Wagner, G.R.: Rapid declines in FEV₁ and subsequent respiratory symptoms, illnesses, and mortality in coal miners in the United States. *Am J Respir Crit Care Med*, 163:633-639, 2001.

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BIOGRAPHICAL SKETCH

6-08-2006

Raymond E. Biagini, Ph.D.	Research Toxicologist Tel: (513) 533 8196 E-mail: reb4@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of San Francisco, San Francisco, CA	B.S.	1971	Biology
University of Nevada, Reno, NV	M.S.	1976	Biochemistry
University of Cincinnati, Cincinnati, OH	Ph.D.	1984	Toxicology

Positions

- 1977-1978 Criteria Manager, Criteria Development Branch, Criteria Development Section, Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Cincinnati, OH.
- 1978-1982 Research Pharmacologist, Experimental Toxicology Branch, Chronic Toxicology Section, CDC/NIOSH NIOSH, Cincinnati, OH.
- 1982-1984 Graduate Student Trainee, Office of the Director, CDC/NIOSH, Cincinnati, OH.
- 1984-present Research Toxicologist, Biological and Health Assessment Branch, CDC/NIOSH, Cincinnati, OH.

Honors

NIOSH Alice B. Hamilton Awards for Excellence in Occupational Safety and Health. 12 Nominations: 2006 (Biology); 2005 (Biology-Winner); 2005 (Human Studies, 2 Nominations); 2002 Human Studies; 2000 (Human Studies); 1997 (Biology); 1997 (Education); 1996 (2 Nominations); 1990; 1987.

Centers for Disease Control and Prevention Charles C. Shepard Awards for Outstanding Scientific Publication by a CDC Employee. 5 CDC Finalist Nominations: 2006; 2005; 2002; 1997; 1996.

United States Public Health Service (USPHS) Awards: three UUSPHS Unit Commendations, USPHS Outstanding Service Medal, USPHS Commendation Medal, USPHS Outstanding Unit Commendation, USPHS Achievement Medal, USPHS Crisis Response Service Medal, USPHS Citation and USPHS Plaque.

Other Experience and Professional Memberships

Sigma Xi
Society of Toxicology (SOT)
American Association of Immunologists
Federation of American Societies for Experimental Biology
International Union of Immunological Societies

Selected peer-reviewed publications (of 59)

1. Biagini, RE, Sammons, DL, Smith, JP, Snawder, JE, Striley, CAF, MacKenzie, BA, Robertson, SR., Quinn, CP. Rapid, Sensitive and Specific Lateral Flow Immunochromatographic Device to Measure anti-Anthrax Protective Antigen IgG in Serum and Whole Blood. *Clinical and Vaccine Immunology*, 13:541-546, 2006.
2. Page, EH, Biagini, RE, Beezhold, DH. *Med Sci Monit*. 2005. Letter to the editor, re: Vojdani A, Antibodies against *Stachybotrys chartarum* extract and its antigenic components, Stachyhemolysin and Stachyrase-A: a new clinical biomarker. *Med Sci Monit*. 11(9):LE7-8, 2005.

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3. Biagini, RE, Sammons, DL, Smith, JP, Snawder, JE, Striley, CAF, MacKenzie, BA, Robertson, SR., Quinn, CP. Simultaneous measurement of specific serum IgG responses to five select agents. *Analytical and Bioanalytical Chemistry* 382:1027-34, 2005.
4. Biagini, RE, Sammons, DL, Smith, JP, Snawder, JE, Striley, CAF, MacKenzie, BA, Robertson, SR. Development of a Sensitivity Enhanced Multiplexed Fluorescence Covalent Microbead Immunosorbent Assay (FCMIA) for the Measurement of Glyphosate, Atrazine and Metolachlor Mercapturate in Water and Urine. *Analytical and Bioanalytical Chemistry*, 379:368-374, 2004.
5. DB. Trout, JM. Seltzer, EH. Page, RE Biagini, D Schmechel, DM. Lewis, AY Boudreau. Clinical use of immunoassays in assessing exposure to fungi and potential health effects related to fungal exposure. *Annals of Allergy, Asthma, & Immunology*, 92:483-492, 2004.
6. JF. White, L Levin, M Villareal, K Murphy, RE. Biagini, L Wellinghoff, H St. Clair, DI. Bernstein. Prevalence Of *In Vivo* Sensitization To Specific Tree Pollen Allergens In A Local Atopic Population Is Unrelated To Regional Tree Pollen Counts. *Ann Allergy Asthma Immunol.* 2005 94:240-6.
7. Biagini, RE, Sammons, DL, Smith, JP, Page, EH, Snawder, JE, Striley, CAF, MacKenzie, BA, Robertson, Evaluation of the Prevalence of Anti-wheat-, Anti-flour dust-, and Anti-alpha-amylase Specific IgE Antibodies in US Blood Donors. *Annals of Allergy, Asthma, & Immunology*, 92:649-653, 2004.
8. R E. Biagini, DL. Sammons, J P. Smith, B A. MacKenzie, C A.F. Striley, V Semenova, E Steward-Clark, K Stamey, A E. Freeman, C P. Quinn, JE. Snawder. Comparison of a Multiplexed Fluorescent Covalent Microsphere Immunoassay (FCMIA) and an Enzyme-Linked Immunosorbent Assay (ELISA) for Measurement of Human IgG Antibodies to Anthrax Toxins. *Clin Diag Lab Immunol* 11:50-55, 2004.
9. Biagini, RE, Sammons, DL, Smith, JP, Page, EH, Snawder, JE, Striley, CAF, MacKenzie, BA. Determination of serum IgG antibodies to Bacillus anthracis protective antigen in environmental sampling workers using a fluorescent covalent microsphere immunoassay (FCMIA). *Occup Environ Med*, 61: 703-708, 2004.
10. CJ. Hines, JA. Deddens, CAF. Striley, RE. Biagini, DA. Shoemaker, KK. Brown, BA. MacKenzie, RD Hull. Biological Monitoring for Selected Herbicide Biomarkers in the Urine of Exposed Custom Applicators: Application of Mixed-Effect Models. *Annals of Occupational Hygiene*, 47: 503-517, 2003.
11. Biagini, RE, Schlotman, S., Sammons, DL, Smith, JP, Snawder, JE, Striley, CAF, MacKenzie, BA. Description of a Method for the Simultaneous Measurement of Antibodies to 23 Pneumococcal Capsular Polysaccharides. *Clin Diag Lab Immunol*, 10:744-750, 2003.
12. Bernstein DI, Karnani R, Biagini RE, Bernstein C, Murphy K, Bernstein JA, Bernstein IL. Outcomes in Health Care Workers with Natural Rubber Latex Allergy. *Ann Allergy Asthma Immunol* 2003;90:209–213.
13. DI. Bernstein, RE. Biagini, R Karnani, R Hamilton, K Murphy, C Bernstein, S Arijia, M. Arif, B Berendts and HY Yeang. In Vivo Sensitization to Purified Hevea brasiliensis Proteins In Health-Care Workers Sensitized to Natural Rubber Latex. *Journal of Allergy and Clinical Immunology* 111:610-616, 2003.
14. Biagini, RE, Murphy, DM, Sammons, DL, Smith, JP, Striley, CAF and MacKenzie, BA. Development of Multiplexed Fluorescence Microbead Immunosorbent Assays (FMIA) for Pesticide Biomonitoring. *Bull. Environ. Contam Toxicol.* (2002) 68:470–477
15. Biagini, RE, Krieg, EF, Pinkerton, LE, Hamilton, RG. Receiver Operating Characteristics (Roc) Analysis of FDA-cleared Serological Assays for Natural Rubber Latex-specific IgE Antibody. *Clinical and Diagnostic Laboratory Immunology*, 8:1145-1149, 2001.
16. Trout, D. Bernstein, J., Martinez, K, Biagini, R, Wallingford, K., Bioaerosol Lung Damage in a Worker with Repeated Exposure to Fungi in a Water-Damaged Building. *Environ. Hlth Perspect*, 109:641-644, 2001.

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17. MF Boeniger, ZL Lummus, RE Biagini, DI Bernstein, MC Swanson, C Reed, M Massoudi. Exposure to Protein Aeroallergens in Egg Processing Facilities Applied Occupational and Environmental Hygiene, 16: 660-670, 2001.
18. Toraason, M., Sussman, G, Beezhold, D, Biagini, R, Meade, J and Germolec, D. Latex Allergy in the Workplace. *Toxicol Sci* 58:5-14, 2000.
19. B.A. MacKenzie, C.A.F. Striley, R.E. Biagini, L. E. Stettler, and C.J. Hines. An Improved Rapid Analytical Method for the Urinary Determination of 3,5,6 Trichloro-2-Pyridinol, a metabolite of chloropyrifos. *Bull Env Contam Toxicol*, 65:1-7, 2000.
20. C.A.F. Striley, R.E. Biagini, J.P. Mastin, B.A. MacKenzie, S.K. Robertson. Development and validation of an ELISA for metolachlor mercapturate in urine. *Analytica Chimica Acta*, 399: 109-114, 1999.
21. Biagini, RE, MacKenzie, BM, Bledsoe, TA, Lewis, DM and Pinkerton, LM Natural rubber latex-specific IgE antibodies in non-healthcare workers: Comparison of two FDA-cleared in vitro kits. *Journal Environ Med*, 1: 147-151, 1999.
22. R.G. Hamilton, R.E. Biagini, E.F. Krieg and Multi-Center Latex Skin Testing Study Task Force, Diagnostic Performance of Food and Drug Administration-Cleared Serological Assays for Natural Rubber Latex- Specific IgE Antibody, *Journal of Allergy and Clinical Immunology*, 103:925-930, 1999.
23. Dick, RB, Pinkerton, LE, Kreig, EF, Biagini, RE, Deddens, JA, Brightwell, WS, Grubb, PL, Taylor, BT, Russo, JM. Evaluation of Postural Stability in Workers Exposed to Lead in a Secondary Smelter, *Neurotoxicology*, 20:598-605, 1999.
24. Mastin JP, Striley CAF, Biagini RE, Hines CJ, Hull RD, MacKenzie BA, Robertson SK [1998]. Use of immunoassays for biomonitoring of herbicide metabolites in urine. *Analytica Chimica Acta* 376: 119-124.
25. Biagini, RE, Epidemiology studies in immunotoxicity evaluations. *Toxicology* 129:37-54, 1998.
26. Malkin R, Martinez, K, Marinkovich, V, Wilcox, T, Wall, D and Biagini, RE. The Relationship Between Symptoms and IgG and IgE Antibodies in an Office Environment. *Environmental Res*. 76:85-93, 1998.
27. Pinkerton, LE, Biagini, RE, Ward, EM, et al, Immunologic findings among lead exposed workers, *Amer. J Indust Med*. 33:400-408, 1998.

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BIOGRAPHICAL SKETCH

6-12-2006

M. Eileen Birch, Ph.D.	Research Scientist Tel: (513) 841-4298 E-mail: mib2@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	B.S.	1979	Chemistry
	M.S.	1982	Chemistry
	*Ph.D.	1985	Analytical/Physical Chemistry

* Ph.D. Dissertation topic: Mechanistic studies on redox behavior of organoarsenicals

Positions

- 2005-present Research Scientist (Team Leader)—Engineering and Physical Hazards Branch, Division of Applied Research and Technology, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Department of Health and Human Services, Cincinnati, OH
- 1987-2005 Research Scientist—National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Department of Health and Human Services, Cincinnati, OH
- 1985-1987 Postdoctoral Fellow—with William R. Heineman, Distinguished Research Professor, Department of Chemistry, University of Cincinnati, Cincinnati, OH
- University Instructor—analytical chemistry lecture and lab, University of Cincinnati
- 1979-1983 Teaching Assistant—University of Cincinnati (various courses)

Honors

- 2006 U.S. Public Health Service Unit Commendation
- 2005 CDC Shepard Science Award nomination for excellence in science
- 2005 Memorandum of Appreciation, Office of the Surgeon General
- 2001 CDC/Morehouse College recognition for dedicated service, Summer Intern Program
- 1999 Certificate of Appreciation, Commissioned Officers Association
- 1998 U.S. Public Health Service Commendation Medal
- 1998 AIHA award nomination for technological innovation
- 1997 NIOSH Alice Hamilton Award for Excellence in Occupational Safety and Health
- 1990 U.S. Public Health Service Achievement Medal
- 1992 Certificate of Appreciation, Centers for Disease Control and Prevention
- 1984 University Research Council Fellowship
- 1975-1982 University Research Associates Fellowship
- 1979-1980 B.S. Magna cum Laude with Honors in Chemistry; Phi Beta Kappa Honor Society

Other experience and professional memberships

- Army consultant on chemical warfare agent analysis
- Quality assurance and technical advisor for NIOSH/NCI epidemiological study of miners.
- Grants Office Advisor, NIOSH Research Grants Program
- Research advisor (Guest Researchers, NRC Fellowship recipients)
- CDC/NIOSH Long-term Training Advisor
- Dissertation Advisory Committee member, Ph.D. candidates, University of Cincinnati
- EPA advisory group and ASTM Subcommittee member

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Royal Society of Chemistry referee panel member

American Chemical Society, ACS Division of Analytical Chemistry, Sigma Xi Scientific Research Society

Selected peer-reviewed publications (last 10 years)

Journals/Proceedings

1. Liang, F., Lu, M., Birch, M. E., Keener, T.C., Liu, Z. [2006]. Determination of Polycyclic Aromatic Sulfur Heterocycles in Diesel Particulate Matter and Diesel Fuel by Gas Chromatography with Atomic Emission Detection, *J Chromatography A*, 1114, 145-153.
2. Liu, Z., Lu, M., Birch, M.E., Keener, T.C., Khang, S.-J., Liang, F. [2005]. Variations in the Particulate Carbon Distribution from a Nonroad Diesel Generator, *Environ. Sci. Technol.*, 39 (20), 7840-7844.
3. Liang, F., Lu, M., Birch, M. E., Keener, T.C., Liu, Z. [2005]. Effects of engine load and fuel sulfur on the organosulfur content of diesel particulate matter, Proceedings of the 98th Annual Conference & Exhibition of the Air and Waste Management Association (A&WMA), Minneapolis, MN June 21-24, 2005.
4. Birch, M.E., Noll, J.D [2004]: Submicrometer elemental carbon as a selective measure of diesel particulate matter in coal mines. *J. Environ. Monit.*, 6, 799-806.
5. Noll, J.D., Birch, M.E. [2004]: Evaluation of the SKC DPM Cassette for monitoring diesel particulate matter in coal mines. *J. Environ. Monit.*, 6, 973-978.
6. Liu, Z., Lu, M., Keener, T.C., Birch, M.E., Khang, S.-J., Liang, F. [2004]: The OC/EC distribution of non-road diesel machines under various loads. Proceedings of the 97th Air and Waste Management Association (AWMA) Annual Conference and Exhibition, June 22-25, 2004, Indianapolis, IN.
7. Birch, M.E. [2003]: Standard test method for monitoring diesel particulate exhaust in the workplace. Published as ASTM Standard Test Method D 6877—03.
8. Birch, M.E. [2002]: Occupational monitoring of particulate diesel exhaust by NIOSH Method 5040. *Appl. Occup. Environ. Hyg.*, 17(6): 400-405.
9. Norris, G.A., Birch, M.E, Tolocka, M.P., Lewis, C.W., Solomon, P.A., Homolya, J.B. [1999]: Analysis of carbonaceous aerosols using the thermal optical transmittance and thermal optical reflectance methods. Proceedings of the 92nd Annual Meeting of the AWMA, St. Louis, MO, June 20-24.
10. Birch, M.E., Dahmann, D., Hennig-Fricke, H. [1999]: Comparison of two carbon analysis methods for monitoring diesel particulate levels in mines," *J. Environ. Monit.*, 1(6):541.
11. Birch, M.E. [1998]: Analysis of carbonaceous aerosols: interlaboratory comparison. *Analyst*, 123: 851-857.
12. Birch, M.E. [1996]: Elemental carbon-based method for occupational monitoring of particulate diesel exhaust: methodology and exposure issues. *Analyst*, 121: 1183-1190.
13. Birch, M.E.; Cary, R.A. [1996]: Elemental carbon-based method for monitoring occupational exposures to particulate diesel exhaust. *Aeros. Sci. and Technol.*, 25(3): 221-241.

Chapters

Birch, M.E. [2004]: Monitoring of diesel particulate exhaust in the workplace. Chapter Q, NIOSH Manual of Analytical Methods (NMAM), eds. Schlecht, P.C., O'Connor P.F., Third Supplement to NMAM, 4th Edition. Cincinnati, OH, DHHS(NIOSH) Publication No. 2003-154.

Technical documents and reports

1. Birch, M.E. [2004]: NIOSH Method 5040 update. NIOSH Manual of Analytical Methods (NMAM), eds. Schlecht, P.C., O'Connor P.F., 3rd supplement to 4th Edition, DHHS(NIOSH) Pub. No. 2003-154, U.S. Government Printing Office, Washington DC.
2. HETA 980014 [1999]: NIOSH report on diesel emissions and other toxicants in terminal and service facilities of the Metropolitan Atlanta Transit Authority (MARTA) (multiple authors).

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3. Birch, M.E. [1998]: NIOSH Method 5040 update. NIOSH Manual of Analytical Methods (NMAM), ed. Cassinelli M.E., O'Connor, P.F., 2nd supplement to 4th Edition, DHHS(NIOSH) Pub. No. 98-119, U.S. Government Printing Office, Washington DC.
4. SOP 500 [1997]: Elements of the Quality Assurance Plan, SOP 500 , DART Quality Assurance Manual
5. NIOSH testimony/comments to MSHA on rule for metal/nonmetal mines and others (multiple authors).
6. Birch, M.E. [1996]: NIOSH Method 5040, NIOSH Manual of Analytical Methods (NMAM), 1st Supplement to 4th edition, DHHS (NIOSH) Pub. No. 1996-752-905, U.S. Government Printing Office, Washington DC.
7. Birch, M.E. Modification and Evaluation of a Microwave Plasma/Atomic Emission Detector System, National Technical Information Service (NTIS) Publication No. PB-92-217-959, 1992.

Presentations

Invited speaker, 19 presentations nationally and internationally

35 presentations at conferences, meetings and symposia.

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BIOGRAPHICAL SKETCH

03-30-2006

Randy J. Boylstein, M.S.	Industrial Hygienist Tel: (304) 285 6062 E-Mail: RBoylstein@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh, Pittsburgh, PA	B.S.	1987	Biological Sciences
Purdue University, West Lafayette, IN	M.S.	1998	Industrial Hygiene

Positions

1997	Industrial Hygiene Intern, Eli Lilly and Company, Indianapolis, IN
1999-2003	Environmental Health Specialist II, NIOSH/DRDS/FSB
2003-Date	Environmental Health Specialist III, NIOSH/DRDS/FSB

Honors

2001	USPHS Unit Commendation
2001	USPHS Unit Commendation
2004	USPHS Training Ribbon
2004	USPHS Citation

Other Experience and Professional Memberships

1996	American Conference of Governmental Industrial Hygienists (ACGIH)
2005	National Environmental Health Association (NEHA)

Peer Reviewed Publications

1. Kanwal R., Kullman G., Kreiss K., Castellan R., Burkhart J., Hilsbos K., Akpınar-Elci M., Piacitelli C., Boylstein R.: NIOSH Alert: Preventing Lung Disease in Workers Who Use or Make Flavorings, 2003.
2. Sahakian N., Choe K., Boylstein R., Schleiff P.: HETA 2002-0408-2915. Agrilink Foods Popcorn Plant. National Institute for Occupational Safety and Health, Report, 2003.
3. Kanwal R., Boylstein R., Piacitelli C.: HETA 2001-0474 American Popcorn Company. National Institute for Occupational Safety and Health, Report, 2003.
4. Henneberger P., Derk S., Milton D., Sama S., Boylstein R., Hoffman C., Preusse: The frequency of workplace exacerbation of asthma: Methods and preliminary results. *Am J Respir Crit Care Med*, 167:A506, 2003.
5. Kullman G., Boylstein R., Jones W., Piacitelli C., Pendergrass C., Kreiss K., Characterization of respiratory exposures at a microwave popcorn plant with cases of bronchiolitis obliterans. *J Occup Environ Hyg*, 2:169-178, 2005.
6. Boylstein R., Piacitelli C., Grote A., Kanwal R., Kullman G., Kreiss, K.: Diacetyl Emissions and Airborne Dust from Butter Flavorings Used in Microwave Popcorn Production. Submitted for publication to the *J Occup Environ Hyg*, 2005.
7. Kanwal R, G. Kullman, C. Piacitelli, R. Boylstein, N. Sahakian, S. Martin, K. Fedan, K. Kreiss: Evaluation of flavorings-related lung disease risk at six microwave popcorn plants. *J Occup Environ Med*, 2005.
8. Hunt P., R. Herrick., E. Pechter, M. Hallock, R. Boylstein, S. Sama, A. Hamlett, E. Houseman, D. Milton: Expert assement of exposure to sensitizers, respiratory irritants, and office environments in an HMO-based study of occupational asthma. (submitted for publication)

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BIOGRAPHICAL SKETCH

3-7-2005

Aleksandar D. Bugarski, M.S.	Mechanical Engineer Tel: 412-386-5912 E-Mail:ABugarski@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown WV	Ph.D.	1999	Mechanical Engineering
West Virginia University, Morgantown WV	M.S.	1996	Petroleum and Natural Gas Engineering
University of Sarajevo, Sarajevo, Bosnia and Herzegovina	B.S.	1989	Civil Engineering

Positions

12/12/1999-Present National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

2003 Bronze Award for Excellence as member of an "Outstanding Team," Federal Executive Board

Peer Reviewed Publications

Bugarski A, Schnakenberg G, Noll J, Mischler S, Crum M, and Anderson R [2005]. Evaluation of Diesel Particulate Filter Systems and Biodiesel Blends in an Underground Mine. Society of Mining Engineers Transactions, Vol. 318.

NIOSH Publications and Technical Reports:

1. Bugarski AD, Schnakenberg GH Jr., Noll JD, Mischler SE, Patts LD, Hummer JA, and Vanderslice SE [2006]. Effectiveness of Selected Diesel Particulate Matter Control Technologies for Underground Mining Applications - Isolated Zone Study, 2003. NIOSH RI 9667.
2. Bugarski AD, Schnakenberg GH Jr., Mischler SE, Noll JD, Patts LD, and Hummer JA [2006]. Effectiveness of Selected Diesel Particulate Matter Control Technologies for Underground Mining Applications - Isolated Zone Study, 2004. NIOSH RI 9668.
3. Schnakenberg GH Jr. and Bugarski AD [2002]. Review of Technology Available to the Underground Mining Industry for Control of Diesel Emissions. NIOSH IC 9462.

Conference Proceedings:

1. Bugarski AD, Schnakenberg GH Jr., and Patts LD [2006]. Implementation of Diesel Particulate Filter Technology in Underground Metal and Nonmetal Mines. Proceeding of 11th U.S./North American Mine Ventilation Symposium, June 5 –7, 2006, University Park, Pennsylvania. January 2006.
2. Mischler SE, Bugarski AD, and Noll JD [2006]. Instrumentation for diesel particulate matter emissions research. Proceeding of 11th U.S./North American Mine Ventilation Symposium, June 5 –7, 2006, University Park, Pennsylvania. January 2006.
3. Stachulak JS, Conard BR, Bugarski AD and Schnakenberg GH Jr. [2006]. DEEP project on evaluation of diesel particulate filters at Inco's Stobie Mine. Proceeding of 11th U.S./North American Mine Ventilation Symposium, June 5 –7, 2006, University Park, Pennsylvania. January 2006.

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4. Bugarski A, Mischler S, and Schnakenberg G [2005]. Effects of Alternative Fuels on Concentrations of Nanometer and Ultrafine Particles in an Underground Mine. Proceedings of 9th ETH Conference on Combustion Generated Nanoparticles. Zürich, August 15-17
5. Stachulak JS, Conard BR, Bugarski AD, and Schnakenberg GH Jr. [2005]. Long-Term Evaluation of Diesel Particulate Filter Systems at Inco's Stobie Mine. Proceeding of 8th International Mine Ventilation Congress, Brisbane, Queensland, Australia, July 6-8 (in-print).
6. Mischler SE, Bugarski A, and Schnakenberg G [2005]. Diesel Particulate Matter Control Technologies and Measurements in US Mines. Proceeding of 8th International Mine Ventilation Congress, Brisbane, Queensland, Australia, July 6-8 (in-print).
7. Bugarski AD [2004]. Characterization of Diesel Aerosols in Underground Mine. Proceedings of 8th ETH Conference on Combustion Generated Nanoparticles. Zürich, August 16-18.
8. Bugarski AD and Schnakenberg GH [2004]. Preliminary Results from Isolated Zone Testing of Diesel Emissions Control Technologies at Stillwater Nye Mine - September 2004 Study. Proceedings of 10th Mining Diesel Emissions Conference (MDEC), Markham, Ontario, Canada, October 13-16.
9. Schnakenberg GH and Bugarski AD [2004]. Evaluation of Diesel Particulate Filter Systems at INCO's Stobie Mine - June 2004 Study. Presented at MDEC, Markham, Ontario, Canada. October 13-16. Proceedings of 10th Mining Diesel Emissions Conference (MDEC), Markham, Ontario, Canada, October 13-16.
10. Bugarski AD and Schnakenberg GH [2002]. Evaluation of Diesel Particulate Filter Systems at INCO Stobie Mine. Mining Diesel Emissions Conference MDEC 2002, Markham, Ontario. October.

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BIOGRAPHICAL SKETCH

03-31-2006

CDR Joseph E. Burkhardt, M.S., CIH	Deputy Director, OD, DRDS, NIOSH Tel: (304) 285 5759 E-mail: JBurkhardt@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Southern Illinois University, Carbondale, Illinois, School of Engineering & Technology	B.S.	1981	Industrial Technology
West Virginia University, Carbondale, Illinois, School of Engineering & Technology	M.S.	1988	Occupational Health & Safety Engineering

Positions

1975–1979	Environmental Health Technician (AFSC 90750) United States Air Force	E-4
1979–1980	Environmental Health Technician (GS-698 Series) CDC/NIOSH	GS-7
1980-1988	Industrial Hygienist (CS-690 Series) CDC/NIOSH	GS-9/11
1988-1990	Environmental Health Specialists III, <u>0-3 Billet Level</u> CDC/NIOSH	Rank O-3
1990-1999	Environmental Health Specialists IV, <u>0-4 Billet Level</u> CDC/NIOSH	Rank O-4
1999-2002	Environmental Health Specialists IV, <u>0-5 Billet Level</u> CDC/NIOSH	Rank O-5
2002-Date	Environmental Health Officer VI, <u>0-6 Billet Level</u> (Supervisory) (DEP CH / PROG NAT) CDC/NIOSH	Rank O-5

Honors

Uniformed Service Awards

1991	PHS - Achievement Medal
1995	PHS - Achievement Medal
1999	PHS - Citation

Unit Awards

1994	PHS - Unit Commendation
1996	PHS - Unit Commendation
1999	PHS - Bicentennial Unit Commendation
1999	PHS - Outstanding Unit Citation
2002	PHS - Outstanding Unit Citation

PHS Service Awards

2002	PHS - Crisis Response Service
2005	PHS – IOTC Training Award

Military Campaign, Service and Training Awards

1978	USAF - Commendation Medal
1979	USAF - Good Conduct Medal

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2005 AME – Cumming Award

Peer Reviewed Publications (Jan 2002-Apr 2005; from a total of 95 since 1983)

1. Wheeler, R.A., Hearl, F.J., Burkhart, J.E., Glenn, R.E.: Environmental conditions in United States underground diesel coal mines. 6th International Pneumoconiosis Conference. Vol 3, p 2154. 1983.
2. Burkhart, J.E., McCawley, M.A., Wheeler, R.A.: Particle size distributions in underground coal mines. *Am J Ind Hyg*, 48 2: 122-126 1987.
3. Burkhart, J.E., Stobbe, T.J.: Real-time measurements and control of waste anesthetic gas during veterinary surgeries. *Am J Ind Hyg*, 51 12: 640-645, 1990.
4. Jankovic, J., W. Jones, J. Burkhart, G. Noonan: Environmental study of fire firefighters. *Ann Occup Hyg*, 35 6: 581-602, 1991.
5. Burkhart, J.E., R. Stanevich, B. Kovak: Microorganism contamination of HVAC humidification systems: Case study. *Appl Occu. Environ Hyg*, 8 12: 1010-1014, 1993.
6. Porter, D.W., V. Castranova, R. Mercer, V. Robinson, J. Scabilloni, A. Hubbs, T. Goldsmith, D. Schwegler-Berry, L. Battelli, R. Washko, J. Burkhart, C. Piacitelli, M. Whitmer, W. Jones: Acute inflammatory reaction in rats after intratracheal instillation of material collected during nylon flocking. *J Toxicol Environ Health A*, 57:25-45, 1999.
7. Burkhart, J.E., C. Piacitelli, D. Schwegler-Berry, W. Jones: Environmental study of nylon flocking process. *J Toxicol Environ Health A*, 57:1-23, 1999.
8. Burkhart, J.E., W. Jones, D. Porter, R. Washko, W. Eschenbacher, R. Castellan: Hazardous occupational exposure and lung disease among nylon flock workers. *Am J Ind Med Suppl*, 1:145-146, 1999.
9. Dewan P.K., Fry A.M., Laserson K., Tierney B.C., Quinn C.P., Hayslett J.A., Broyles L.N., Shane A., Winthrop K.L., Walks I., Siegel L., Hales T., Semenova V.A., Romero-Steiner S., Elie C., Khabbaz R., Khan A.S., Hajjeh R.A., Schuchat A., Blosser F., Burkhart J., Calvert G., Delaney L., Driscoll R., Echt A., Feldman D., Hartle R., Kiefer M., King B., Kullman G., Lushniak B., McCleery R., McKernan J., Piacitelli C., Sanderson W., Schulte P.: Inhalational anthrax outbreak among postal workers, Washington, D.C., 2001. *Emerg Infect Dis*, 10:1066-1072, 2002.

Technical Reports

1. McCawley, M., Burkhart, J., Baron, P., Dollberg, D.: Testing of a personal filter cassette with a circumferential division of respiratory disease studies, NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 21 pages, 10 references, 1983.
2. Burkhart, J.E.: Health Hazard Evaluation Report No. HETA-90-218-2079, Fairmont General Hospital, Fairmont, West Virginia. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 12 pages, 29 references, 1990.
3. Burkhart, J.E.: Health Hazard Evaluation Report No. HETA-90-208-2143, West Virginia University pottery shop, Morgantown, West Virginia. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 12 pages, 6 references, 1991.
4. Burkhart, J.E.: Health Hazard Evaluation Report No. HETA-90-296-2149, Monongalia General Hospital, Morgantown, West Virginia. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 18 pages 15 references, 1991.
5. Burkhart, J.E.: Health Hazard Evaluation Report No. HETA-91-188-2205, Bethlehem-Center Elementary School, Fredericktown, Pennsylvania. NIOSH, U.S. Department of Health and Human Services, Morgantown, West Virginia, 42 pages, 21 references, 1992.
6. Burkhart, J.E., Jennison, E.A.: Health Hazard Evaluation Report No. HETA-93-0784-2350, Blackshere Elementary School, Mannington, West Virginia. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 33 pages, 33 references, 1993.

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7. Burkhart, J.E., Jennison, E.A.: Health Hazard Evaluation Report No. HETA-92-0297-2396, Exxon Chemical Company, Pottsville Film Plant, Polyethylene Film Department, Mar-Lin, Pennsylvania. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 21 pages, 11 references, 1994.
8. Filios, M., Burkhart, J.E., Cornwell, R.J.: Health Hazard Evaluation Report No. HETA-90-0286-2428, Kaiser Aluminum, Trentwood Works, Spokane, Washington. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 48 pages, 34 references, 1994.
9. Burkhart, J.E., Jennison, E.A.: Health Hazard Evaluation Report No. HETA-94-0196, Hubert H. Humphrey Building, Office of Womens Health, 7th Floor, Washington, DC. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 22 pages, 30 references, 1994.
10. Burkhart, J.E., Jennison, E.A.: Health Hazard Evaluation Report No. HETA-94-0237-2446, H.E. McCracken Middle School, Hilton Head, South Carolina. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 24 pages, 27 references, 1994.
11. Burkhart, J.E., Parker, J.E.: Health Hazard Evaluation Report No. HETA 94-0373-480, Suffolk County Courthouse, Boston, Massachusetts. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 53 pages, 24 references 1995.
12. Burkhart, J.E., Short, S.A.: Health Hazard Evaluation Report No. HETA-91-0354, South Dade Disposal Site, Miami, Florida. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 37 pages, 43 references, 1995.
13. Burkhart, J.E.: Health Hazard Evaluation Report No. HETA-95-0162, RCA Rubber Company, Akron, Ohio. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 27 pages, 26 references, 1995.
14. Filios, M., Burkhart, J., Health Hazard Evaluation Report No. HETA 91-0047-2672, Golden Valley Electric Association, Healy, AK. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 39 pages, 57 references, 1998.
15. Washko, R., Burkhart, J., Piacitelli, C.: Health Hazard Evaluation Report No. HETA 96-0093-2685, Microfibres Inc., Pawtucket, RI. NIOSH, U.S. Department of Health and Human Services, Cincinnati, Ohio, 78 pages, 47 references, 1998.
16. Daroowalla F., Wang M.L., Piacitelli C., Burkhart J., Jones W.: Health Hazard Evaluation Report, HETA-98-0212-2788, Claremont Flock Corporation, Claremont, New Hampshire 2000.
17. Daroowalla F., Wang M.L., Piacitelli C., Burkhart J., Jones W.: Health Hazard Evaluation Report, HETA-98-0238-2789, Spectro Coating Corporation, Leominster, Massachusetts 2000.
18. Burkhart, J.E.: FACE Report 99-03. Female construction worker dies in a compactor tip over at a highway construction site - South Carolina. 2000.
19. Burkhart, J.E.: FACE Report 2000-01. Worker dies from crushing injuries after falling into a baling machine - North Carolina. 2000.
20. Burkhart J.E.: FACE Report 2000-19. Sixteen-year-old produce-market worker dies from crushing injuries after being caught in a vertical downstroke baler - New York, 2000.
21. Burkhart J.E.: FACE Report 2000-20. Twenty-nine-year-old asphalt compactor operator dies from crushing injuries received during machine rollover - North Carolina , 2001.
22. Burkhart J.E.: FACE Report 2001-06. Eighteen-year-old sporting goods retail store worker dies in a fall from a shelving unit – Pennsylvania , 2001.
23. Burkhart, J.E., Casini, V. : FACE Report 2002-06. Roadway construction worker dies from crushing injuries when backed over by a dump truck – Virginia 2004.
24. Burkhart J., Moore P., NIOSH Alert 2003-124. Preventing deaths and injuries while compacting or baling refuse material. 2003
25. Kanwal R., Kullman G., Kreiss K., Castellan R., Burkhart J., Hilsbos K., Akpınar-Elci M., Piacitelli C., Boylstein R.: NIOSH Alert 2004-110. Preventing lung disease in workers who use or make flavorings. 2004.

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Presentations

1. Piacitelli, G.M., W.G. Jones, J.E. Burkhart, J.T. Jankovic: Environmental characterization of diesel emissions in underground coal mines. American Industrial Hygiene Conference, Detroit, Michigan, 1984.
2. Burkhart, J.E., R.A. Wheeler, F.J. Hearl, M.D. Attfield, M.A. McCawley: Can compliance dust data be used in epidemiological studies of coal workers pneumoconiosis? American Industrial Hygiene Conference, Detroit, Michigan, 1984.
3. Jones, W.G., G.M. Piacitelli, J.E. Burkhart, K. Williams, J. Bowman: Laboratory and field evaluation of the MINIRAM and HAM aerosol monitors. American Industrial Hygiene Conference, Las Vegas, Nevada., 1985.
4. McCawley, M.A., G.M. Piacitelli, J.E. Burkhart, D.M. Doyle: Diesel particulate measurement techniques applied to ventilation control strategies in underground coal mines. International Conference on the Health of Miners, Pittsburgh. PA, 1985.
5. Burkhart, J.E., G.M. Piacitelli, P. Hewett, J. Cocalis: Environmental characterization of conventional coal mining sections. American Industrial Hygiene Conference, Dallas, Texas, 1986.
6. Burkhart, J.E., T.J. Stobbe: Real-time measurements and control of waste anesthetic gas during veterinary surgeries. American Industrial Hygiene Conference, St. Louis, Missouri, 1989.
7. Burkhart, J.E., R. Stanevich, B. Kovak: Microorganism contamination of HVAC humidification systems: Case study. American Industrial Hygiene Conference, Orlando, Florida, 1990.
8. Burkhart, J. W. Jones, D. Porter, R. Washko, W. Eschenbacher, R. Castellan: Hazardous occupational exposure and lung disease among nylon flock workers. NIOSH-FIOH-NIWL Symposium, Hidden Valley PA, 1998.
9. Burkhart, J.E.: The NIOSH FACE Program - Highway work zone safety. Presented at the 10th Annual Construction Safety Conference, Chicago, IL, 2000.
10. Fosbroke D.E., Pratt S.G., Burkhart J.E., Marsh S.M., Casini V.J., Moore P.H., Smith G.J.: Integrating injury research with industry experience to develop measures for preventing worker injuries from vehicles and equipment in highway work zones. Presented at NOIRS 2000--Abstracts of the National Occupational Injury Research Symposium 2000, Pittsburgh, PA., 2000.
11. Burkhart, J.E., The NIOSH FACE Program - Highway work zone safety. Presented at the Mid-Atlantic Region Safety and Health Expo, 2000.
12. Burkhart J.E.: The NIOSH Fatality Assessment and Control Evaluation (FACE) Program. Presented at the American Industrial Hygiene Conference Expo, 2002, 2002.

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BIOGRAPHICAL SKETCH

03 -31-2006

Robert M. Castellan, M.D., M.P.H.	Expert Tel: (304) 285 6117 E-mail: RCastellan@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Brown University, Providence, RI	A.B.	1972	Biology
Brown University, Providence, RI	M.M.Sc.	1975	Medical Sciences
Brown University, Providence, RI	M.D.	1975	Medicine
Graduate School of Public Health, University of Pittsburgh, PA	M.P.H.	1989	Epidemiology

Positions

1975-1978	Medical Residency, Internal Medicine, University of Rochester (NY) School of Medicine
1978-2004	Commissioned Officer, United States Public Health Service (USPHS)
1978-1980	EIS Officer, Division of Respiratory Disease Studies, NIOSH, CDC, Morgantown, WV
1980-1983	Pulmonary Medicine Fellowship, West Virginia University School of Medicine, Morgantown, WV
1983-1988	Chief, Clinical Section, Clinical Investigations Branch, DRDS, NIOSH/CDC, Morgantown, WV and Coordinator, Health Hazard Evaluations Program, DRDS, NIOSH/CDC, Morgantown, WV
1989-1994	Acting Chief and then Chief, Epidemiological Investigations Branch, DRDS, NIOSH/CDC
1994-1999	Senior Epidemiologist, Epidemiological Investigations Branch, DRDS, NIOSH/CDC
2000-2002	Acting Chief, Surveillance Branch, DRDS, NIOSH/CDC
2002	Senior Medical Epidemiologist and then Expert, Office of the Director, DRDS, NIOSH/CDC

Honors

1983	Awarded, Commendation Medals, USPHS
1983	Selected, Future Leader of Pulmonary Medicine, American College of Chest Physicians
1987-1988	Nominated, Charles B. Shepard Science Award, CDC
1988-1989	Nominated, Alice Hamilton Science Award, NIOSH
1991	Awarded, Commendation Medals, USPHS
1991-1993	Awarded, Unit Commendations, USPHS
1993	Nominated, Alice Hamilton Science Award, NIOSH
1995	Nominated, 1994 Health Communications Award, CDC/ATSDR Communicators Roundtable
1995	Awarded, Outstanding Service Award, American Lung Association of West Virginia
1996	Awarded, Meritorious Service Medal, USPHS
1996	Nominated, Alice Hamilton Science Award, NIOSH
1997-1998	Awarded, Unit Commendations, USPHS
1999	Awarded, Outstanding Unit Citation, USPHS
2001	Nominated, Alice Hamilton Science Award, NIOSH
2001	Nominated, Charles B. Shepard Science Award, CDC
2002	Awarded, Outstanding Unit Citation, USPHS
2002	Awarded, Crisis Response Service Award, USPHS

Other Experience and Professional Memberships

1981-1983	Member, Human Subjects Review Board (Institutional Review Board), NIOSH
1984-1987	Member, Occupational Health Committee, American Lung Association
1987-1989	Member, Subcommittee on the Epidemiologic Assessment of Occupational Asthma,

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- 1987-1989 Occupational Lung Disease Committee, American Academy of Allergy and Immunology Steering Committee Member, Workshop on Environmental and Occupational Asthma, EPA/NHLBI/NIOSH
- 1988-1994 Secretary-Treasurer, West Virginia Thoracic Society
- 1989-1992 Member, Occupational Health Committee, American Lung Association
- 1990-1991 Member, Institute Policy Committee, NIOSH
- 1991-1992 Member, Scientific Program Committee, Epidemic Intelligence Service Conference, CDC
- 1991-1992 Member, Planning Committee, 9th International Symposium on Epidemiology in Occupational Health, International Commission on Occupational Safety and Health/NIOSH
- 1992-1995 Member, Occupational Lung Disease Expert Advisory Group, American Lung Association
- 1994-1997 Member, Research Grants Program Office Secondary Review Committee, NIOSH
- 1996 Member, Organizing Committee, Workshop on Airways Disease and Occupational Exposure to Particulates Not Otherwise Classified/Regulated, AOEC
- 1997-2004 Member, *Healthy People 2010* Occupational Safety and Health Working Group, USPHS
- 1998-1994 Member, Occupational Health Subcommittee, Council of State and Territorial Epidemiologists
- 1999 Secretary, West Virginia Thoracic Society
- 2000 Participant, Broadening the Practice of Environmental Health Project, NACCHO
- 2000 Member, Libby (Montana) Asbestos Exposure Scientific Council, EPA
- 1997-2004 Member, NORA Surveillance Research Methods Team, NIOSH
- 1997-2004 Member, NORA Asthma and Chronic Obstructive Pulmonary Disease Team, NIOSH

Peer Reviewed Publications

1. Boehlecke B., Cocke J., Bragg K., Hancock J., Petsonk E., Castellan R., Merchant J.: Pulmonary function response to standard and washed cotton dust. *Am Rev Respir Dis*, 123:152-84, 1981.
2. Banks D.E., Bauer M.A., Castellan R.M., Lapp N.L.: Silicosis in surface coal mine drillers. *Thorax*, 38:275-278, 1983.
3. Petersen M., Castellan R.M.: Prevalence of chest symptoms in nonexposed blue collar workers. *J Occup Med*, 26:367-374, 1984.
4. Castellan R.M., Olenchock S.A., Hankinson J.L., Millner P.D., Cocke J.B., Bragg K.C., Perkins H.H., Jr., Jacobs, R.R.: Acute bronchoconstriction induced by cotton dust: Dose-related responses to endotoxin and other dustfactors. *Ann Intern Med*, 101:157-163, 1984.
5. Sepulveda M-J., Hankinson J., Castellan R.M., Cocke J.B.: Cotton-induced bronchoconstriction detected by a forced random noise oscillator. *Br J Ind Med*, 41:480-486, 1984.
6. Sepulveda M-J., Castellan R.M., Hankinson J.L., Cocke J.B.: Acute lung function response to cotton dust in atopic and nonatopic individuals. *Br J Ind Med*, 41:487-491, 1984.
7. Sepulveda M-J., Hankinson J., Castellan R.M., Cocke J.B.: Helium-oxygen spirometry in experimental cotton dust exposure. *Lung*, 162:347-356, 1984.
8. Petsonk E.L., Olenchock S.A., Castellan R.M., Banks D.E., Mull J.C., Hankinson J.L., Bragg C.K., Perkins H.H., Cocke J.B.: Human ventilatory response to washed and unwashed cottons from different growing areas. *Br J Ind Med*, 43:182-187, 1986.
9. Hankinson J.L., Castellan R.M., Kinsley K.B., Keimig D.G.: Effect of spirometer temperature on measurement of FEV₁ shift changes. *J Occup Med*, 28:1222-1225, 1986.
10. Kellie S.E., Attfield M.D., Hankinson J.L., Castellan R.M.: Spirometry variability criteria: associations with respiratory morbidity and mortality in a cohort of coal miners. *Am J Epidemiol*, 125:437-444, 1987.
11. Keimig D.G., Castellan R.M., Kullman G.J., Kinsley K.B.: Respiratory health status of gilsonite workers. *Am J Indust Med*, 11:287-296, 1987.
12. Castellan R.M., Olenchock S.A., Kinsley K.B., Hankinson J.L.: Inhaled endotoxin and decreased spirometric values: an exposure-response relation for cotton dust. *N Engl J Med*, 317:605-610, 1987.

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13. Ghio A.J., Castellan R.M., Kinsley K.B., Hankinson J.H.: Changes in forced expiratory volume in one second and peak expiratory flow rate across a workshift among unexposed blue collar workers. *Am Rev Respir Dis*, 143:1231-1234, 1991.
14. Amandus H.E., Castellan R.M., Shy C., Heineman E., Blair A.: A Reevaluation of silicosis and lung cancer in North Carolina dusty trades workers. *Am J Ind Med*, 22:147-153, 1992.
15. Attfield M.D., Castellan R.M.: Epidemiologic data on U.S. coal miners' pneumoconiosis, 1960 to 1988. *Am J Public Health*, 82:964-970, 1992.
16. Costello J., Castellan R.M., Swecker S., Kullman G.: Mortality study of a cohort of U.S. workers employed in the crushed stone industry, 1940-1980. *Am J Ind Med*, 27:625-640, 1995.
17. Eschenbacher W.L., Kreiss K., Loughheed M.D., Pransky G.S., Castellan R.M.: Nylon flock-associated interstitial lung disease: clinical pathology workshop summary. *Am J Respir Crit Care Med*, 159:2003-2008, 1999.
18. Washko R.M., Day B., Parker J.E., Castellan R.M., Kreiss K.: Epidemiologic investigation of respiratory morbidity at a nylon flock plant. *Am J Ind Med*, 38:628-638, 2000.

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BIOGRAPHICAL SKETCH			
NAME	POSITION TITLE		
Vincent Castranova	Chief, Pathology and Physiology Research Branch, National Institute for Occupational Safety and Health – VICI@cdc.gov – 304-285-6032		
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
Mount Saint Mary's College (Emmitsburgh, MD)	B.S.	1966-70	Biology
Dept. of Physiology and Biophysics, West Virginia University School of Medicine (Morgantown, WV)	Ph.D.	1970-74	Physiology
Dept. of Physiology, Yale University, School of Medicine (New Haven, CT)	Post-Doc	1974-76	Physiology

Positions

Research Faculty, 1976-77, Yale University
Research Physiologist, 1977-83 NIOSH
Assistant Professor of Physiology, 1977-81, West Virginia University
Associate Professor of Physiology, 1981-85, West Virginia University
Chief, Biochemistry Section, 1983-1995, NIOSH
Acting Chief, Pathology Section, 1989-1994, NIOSH
Chief, Pathology and Physiology Research Branch, 1995- , NIOSH
Acting Director, Health Effects Laboratory Division, 1996, NIOSH

Honors

Professor of Physiology, 1985- , West Virginia University
Professor, Basic Pharmaceutical Sciences 1996- , West Virginia University
CDC Distinguished Fellow, 1999 - 2001
CDC Distinguished Consultant, 2001 -
Professor, 2002 - , Environmental and Occupational Health, University of Pittsburgh

Representative Recent Publications (of over 400 manuscripts and 4 books)

1. Attfield M, V Castranova, G Wagner. Respiratory Disease in Coal Miners. In Environmental and Occupational Medicine W.N. Rom (ed) Lippincott-Raven, Philadelphia. Chap 23. 2006.
2. Kanj, JL Kang, V Castranova. Interactions between primary alveolar macrophages and primary and alveolar type II cells under basal conditions and after lipopolysaccharide or quartz exposure. J Toxicol Environ Health. Part A 69:1097-1116, 2006.
3. Feng R, Y Lu, LL Bowman, Y Qian, V Castranova, M Ding. Inhibition of AP-1, NF-kB and MAPKs and induction of phase 2 detoxifying enzyme activity by chlorogenic acid. J Biol Chem 280:27888-27895, 2005.
4. Shvedova AA, ER Kisin, R Mercer, AR Murray, VJ Johnson, AI Potapovich, YY Tyurina, O Gorelik, S Arepulli, D Schwegler-Berry, AF Hubbs, J Antonini, DE Evans, B-K Ku, D Ramsey, A Maynard, VE

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- Kagan, V Castranova, P Baron. Unusual inflammatory and fibrogenic pulmonary responses to single walled carbon nanotubes in mice. *Am. J. Physiology: Lung Cell Mol Physiol* 289:L698-L708, 2005.
5. Nurkiewicz TR, DW Porter, M Barger, L Millecchia, KM Rao, PJ Marvar, AF Hubbs, V Castranova, MA Boegehold. Systemic microvascular dysfunction and inflammation after pulmonary particulate matter exposure. *Environ Health Perspect* 114:412-419, 2006.
 6. Bernstein D, V Castranova, K Donaldson, B Fubini, J Hadley, T Hesterberg, A Kane, D Lai, EE McConnell, H Muhle, G Oberdorster, S Oline, DB Warheit. Testing of fibrous particles: short-term assays and strategies – report of an ILSI Risk Science Institute working group. *Inhal Toxicol* 17:497-537, 2005.
 7. Zhang YD, Y Lu, BZ Yuan, V Castranova, XL Shi, JL Stauffer, LM Demers, F Chen. The human mineral dust-induced gene, mdig, is a cell growth regulating gene associated with lung cancer. *Oncogene* 24:4873-4882, 2005.
 8. Han SG, V Castranova, V Vallyathan. Heat shock protein 70 as an indicator of early lung injury caused by exposure to arsenic. *Mol Cell Biochem* 277:153-164, 2005.
 9. Zhu LK, V Castranova, PN He. FMLP stimulated neutrophils increase endothelial Ca and microvascular permeability in the absence of adhesion: role of reactive oxygen species. *Am J Physiol: Heart Circ Physiol* 288:H1331-H1338, 2005.
 10. Schachter E N, E Zuskin, M Buck, T J Witek, J Godboldm, N Roy, V Castranova, M Whitmer, P D Siegel, E C Bluhm. Airway responses to the inhalation of cotton dust and cotton bract extracts. *Respir* 406:1-7, 2005.
 11. Zhang, Y, Y Lu, M Ding, V Castranova, X Shi, F Chen. Deficiency in IkkB gene enhances arsenic-induced gadd45 alpha expression. *Mol. Cell. Biochem.* 279:163-168, 2005.
 12. Zhang, Y, D Bhatia, H Xia, V Castranova, X Shi, F Chen. Nucleolin links to arsenic-induced stabilization of GADD45 alpha mRNA. *Nucleic Acids Research* 34: 485 – 495, 2006.
 13. Oberdorster G, A Maynard, K Donaldson, V Castranova, J Fitzpatrick, K Ausman, J Carter, B Karn, W Kreyling, D Lai, S Olin, N Monteiro-Riviere, D Warheit, H Yang. Principles for characterizing the potential human effects from exposure to nanomaterials: elements of a screening strategy. *Particle and Fibre Toxicol* 2:8, 2005.
 14. Zeidler-Erdely, PC, WJ Calhoun, BT Ameredes, MP Clark, GJ Deye, P Baron, W Jones, T Blake, V Castranova. In vitro cytotoxicity of Manville Code 100 glass fibers: Effect of fiber length on human alveolar macrophages. *Particles and Fibre Toxicol* 3:5, 2006.
 15. Antonini JM, AA Afshari, S Stone, B Chen, D Schwegler-Berry, WG Fletcher, WT Goldsmith, KH Vandestouwe, W McKinney, V Castranova, DG Frazer. Design, construction, and characterization of a novel robotic welding fume generator and inhalation exposure system for laboratory animals. *J. Occup. Environ. Hygiene* 3:194-203, 2006.
 16. Guo L, Y Ma, R Ward, V Castranova, X Shi, Y Qian. Constructing molecular classifiers for accurate prognosis of lung adenocarcinoma. *Clin Cancer Res* 12:3344- 3354, 2006.
 17. Kuempel ED, CL Tran, V Castranova, AJ Bailer. Lung dosimetry and risk assessment of nanoparticles: Evaluating and extending current models in rats and humans. *Inhal. Toxicol.* 18:717-724, 2006.

Books

1. Reactive Oxygen/Nitrogen Species: Lung Injury and Disease. V. Vallyathan, X. Shi, and V. Castranova (eds).
2. Lung Biology in Health and Disease. Claude Lenfant (exec. ed.) Marcel Dekker, New York, 2004.
3. Toxicology of 1-3-β-Glucans. S-H Young and V. Castranova (eds). CRC Press, Boca Raton, 2005.

Research Activities

1. Development of New Research Initiatives in Occupational Health - PI (1998-2006), NIOSH, \$112,882/yr, 20% effort.
2. Particle Surface Area as a Dose Metric - PI (2004-2008), NIOSH, \$89,349/yr, 20% effort.

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3. Microvascular Dysfunction after Pulmonary Exposure to Ultrafine Particles – PI (2006-2011), NIOSH, \$60,500/yr, 25% effort .
4. Microvascular Dysfunction from Pulmonary Exposure to Fine vs Ultrafine Titanium Dioxide – Co-PI (2005-2008), HEI, \$79,959/yr, 15% effort
5. Regulation of Fas-mediated Lung Cell Apoptosis – Co-PI (2006-2010), NIOSH, \$63,146/yr, 10% effort.
6. Oxidant Stress Induced by Nanomaterials – Co-PI (2005 – 2008), NIOSH, \$126,000/yr, 10% effort.

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BIOGRAPHICAL SKETCH

Andrew B. Cecala, M.S.	Mining Engineer Tel: 412-386-6677 E-Mail: ACecala@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Duquesne University	M.S.	1989	Business Administration
West Virginia University	BS	1980	Mining Engineering

Positions

10/01/1996 National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention

Other Experience and Professional Memberships

1998-1999 Member, ACGIH's Industrial Ventilation Committee
1994-1997 Member, AIME Ventilation Committee
Member, Society for Mining, Metallurgy, and Exploration

Honors

9/19/02 Civil Service Special Act Award for contribution to the NIOSH and CDC response to the World Trade Center and Anthrax National Emergencies.
5//22/02 H&HS Secretary's Award for Distinguished Service for being a member of the World Trade Center and Anthrax Emergency Response Team.
2002 Michigan Industrial Hygiene Society Award for best publication in AIHA or AOEH journal for calendar year 2000.
1996 Gold Medal Award for Outstanding Professional Employee in Medical/Scientific Series; Federal Executive Board – Pittsburgh, 1996.
1994 PRC Publication of the Year Award: Peer Reviewed Journal
1992 PRC Publication of the Year Award: Industry Journal
1986 AIME Young Engineer Award (Pittsburgh Chapter)
1985 Patent No. 488,480 – Self Adjusting Cap Lamp Bracket

Peer Reviewed Publications

1. Cecala, AB, JA Organiscak, JA Zimmer, WA Heitbrink, ES Moyer, M Schmitz, E Ahrenholtz, CC Coppeck, and EH Andrews. Reducing Enclosed Cab Drill Operator's Respirable Dust Exposure with Effective Filtration and Pressurization Techniques. Journal of Occupational and Environmental Hygiene. January 2005, 2:54-63.
2. Cecala, AB, JA Organiscak, WA Heitbrink, JA Zimmer, T. Fisher, RE Gresh, and JD Ashley II.
3. Reducing Enclosed Cab Drill Operator's Respirable Dust Exposure at a Surface Coal Operation Using a Retrofitted Filtration and Pressurization System. Transactions of Society of Mining, Metallurgy, and Exploration, Inc. Vol. 314, pp. 31-36. February 2004.
4. Dunn, KH, SA Shulman, AB Cecala, and DE Venturin. Evaluation of a Local Exhaust Ventilation System for Controlling Refractory Ceramic Fibers During Disc Sanding. Journal of Occupational and Environmental Hygiene. Vol. 1, Oct. 2004, pp. D107-D111.
5. Organiscak, JA, AB Cecala, ED Thimons, WA Heitbrink, M. Schmitz, and E. Ahrenholtz. NIOSH/Industry Collaborative Efforts Show Improved Mining Equipment Cab Dust Protection. Transactions of Society of Mining, Metallurgy, and Exploration, Inc. Vol. 313, pp. 145-152. February 2004.

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6. NIOSH Publications and Technical Reports:
7. Cecala, AB, JA Zimmer, JF Colinet, RJ Timko. Lowering Respirable Dust at an Iron Ore Concentrator Plant Through Improved Ventilation Practices. Proceedings of the 11th U.S./North American Mine Ventilation Symposium, State College, PA, June 2006, pp. 189-196.
8. Cecala, AB, JA Zimmer, JF Colinet, RJ Timko, GJ Chekan, and DE Pollock. Control Technology Using Ventilation to Reduce Respirable Dust Exposures at U.S. Metal/Nonmetal Mining Operations. Proceedings of 8th International Mine Ventilation 2005 Congress, Brisbane, Queensland, Australia, July 2005.
9. Pollock, DE, AB Cecala, AD O'Brien, JA Zimmer, JL Howell. *Dusting Off*. Rock Products, March 2005.
10. Cecala, AB, and JA Zimmer. Filtered Recirculation – A Critical Component to Maintaining Acceptable Air Quality in Enclosed Cabs for Surface Mining Equipment. Proceeding of 10th U.S./N.A. Mine Ventilation Symposium. Anchorage, Alaska, May 16-19, 2004. pp. 377-387.
11. Cecala, AB, and JA Zimmer. Clearing the Air. *Aggregates Manager Journal*. Vol. 9, No. 4, July/August 2004. pp. 12-14.

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BIOGRAPHICAL SKETCH

Gregory J. Chekan	Mining Engineer Tel: 412-386-6676 E-Mail: GChekan@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh, Pittsburgh PA	B.S.	1979	Mining Engineering

Positions

12/22/1996 National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

2004 Bronze Award for Outstanding Professional Employee in the Medical/Scientific Field –
Pittsburgh Federal Executive Board, Excellence in Government Awards

1983 SME Robert Stefanko Award

Other Experience and Professional Memberships

Society of Mining Engineers (SME)

Peer Reviewed Publications

1. Chekan GJ, Colinet JF, Kissel FN, Rider, JP, Vinson, RP, Volkwein, JC. [2006]. Performance of a Light Scattering Dust Monitor in Underground Mines. SME Transactions 2006. Vol. 320, pp. 182-188.
2. Chekan GJ, Listak JM, Colinet JF [2004]. Factors Impacting Respirable Dust Entrainment and Dilution in High Velocity Airstreams. SME Transactions 2004. Vol. 316, pp. 186-192.
3. Chekan GJ, Cecala AB, Colinet JF [2003]. An Evaluation of Cab Filtration and Pressurization Systems: Two Case Studies. Proceedings of National Stone, Sand & Gravel Association. An Environment, Safety & Health Forum. Phoenix AZ. September 22-24, 2003, pp. 114-129.
4. Chekan GJ, Colinet JF, Grau, RH [2002]. Silica Dust Sources in Underground Metal/Nonmetal Mines. SME Transactions 2002. Vol. 312, pp. 187-193.
5. Listak JM., Chekan GJ, Colinet JF [2001]. Laboratory Evaluation of Shield Dust Entrainment in High Velocity Airstreams. SME Transactions 2001. Vol. 310, pp. 155-160.
- 6.
7. NIOSH Publications and Technical Reports:
8. Kissell F, Chekan GJ [2003]. Chapter 4: Dust Control in Stone Mines. Handbook for Dust Control in Mining, IC 9465, pp. 57-72.

Conferences:

1. Chekan GJ, Colinet JF, Grau, RH [2006]. Impact of Fan Type for Reducing Respirable Dust at an Underground Limestone Crushing Facility. Proceedings of the 11th U.S. Mine Ventilation Symposium. The Pennsylvania State University, University Park, Pennsylvania. June 5-7, 2006. pp. 203-210.
2. Chekan GJ, Colinet JF, Grau, RH [2004]. Evaluating Ventilating Air Movement in Underground Limestone Mines by Monitoring Respirable Dust Generated from Production Shots. Proceedings of the 10th U.S. Mine Ventilation Symposium. Anchorage, Alaska, May 17-19, 2004. pp. 221-232.
3. Chekan GJ, Colinet JF [2002]. Silica Dust Sources in Underground Limestone Mines. Proceedings of Thirty-Third Annual Institute on Mining Health, Safety and Research. Roanoke, Virginia. August 27-30, 2002, pp. 55-70.

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4. Chekan GJ, Listak JM, Colinet JF [2001]. Laboratory Testing to Quantify Dust Entrainment During Shield Advance. Proceedings 7th International Mine Ventilation Congress. Krakow, Poland. June 17-22, 2001. pp. 291-298.

Journal Article

Chekan GJ, Colinet JF [2003]. Retrofit Options for Better Dust Control. Aggregates Management & Operations (AGGMAN). December 2003, pp. 9-12.

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BIOGRAPHICAL SKETCH

03-31-2006

Christopher C. Coffey, Ph.D.	Chief, Laboratory Research Branch, DRDS Tel: (304) 285 5958 E-mail: CCoffey@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Mercyhurst College, Erie, PA	B.A.	1977	Chemistry Occupational Health and Safety Engineering
West Virginia University, Morgantown, WV	M.S.	1986	
West Virginia University, Morgantown, WV	Ph.D.	1996	Industrial Engineering

Positions

1978-1984	Chemist, Air Purifying Respirator Section, Certification and Quality Assurance Branch (CQAB), Division of Safety Research, National Institute for Occupational Safety and Health.
1984-1993	Chief, Air Purifying Respirator Section, Certification and Quality Assurance Branch (CQAB), Division of Safety Research, National Institute for Occupational Safety and Health.
1993-1998	Research Chemist, Air Supplied Respirator Section, Certification and Quality Assurance Branch (CQAB), Division of Safety Research, National Institute for Occupational Safety and Health.
1998-2004	Senior Research Chemist, National Institute for Occupational Safety and Health, Division of Respiratory Disease Studies, Laboratory Research Branch, Morgantown, WV
2004-Date	Chief, National Institute for Occupational Safety and Health, Division of Respiratory Disease Studies, Laboratory Research Branch, Morgantown, WV

Honors

1998	John M. White Award
1999	John M. White Award
2003	The Charles C. Shepard Science Award
2004	Best of Session Award, American Industrial Hygiene Conference and Exposition, Atlanta, GA for a poster
2004	Shepard Award Nomination in Outstanding Scientific Contribution category for NIOSH Pocket Guide to Chemical Hazards

Other Experience and Professional Memberships

2001-Date	Member of the NIOSH Human Subjects Review Board
2004-Date	Member of the NIOSH Respirator Policy Group
2005-Date	Reviewer for Journal of Occupational and Environmental Health
1990-1996	American National Standard Institute (ANSI) Z88.12 Committee on Respiratory Protection for Infectious Aerosols
1991-1995	American National Standard Institute (ANSI) Z88.8 Committee on Air Purifying Respirator Testing
1995-2000	American National Standard Institute (ANSI) Z88.10 Committee on Respirator Fit Testing
2001-2004	Occupational Health and Safety Advisory Committee, Industrial Engineering and Systems Management, West Virginia University, College of Engineering and Mineral Resources Adjunct Professor of Industrial Engineering and Systems Management, West Virginia University, College of Engineering and Mineral Resources

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Peer Reviewed Publications

1. Coffey C., Martin S., Sahakian N.: Health hazard evaluation report: HETA-2002-0343-2902, Fayette County Courthouse, Uniontown, Pennsylvania, 2003.
2. Zhuang Z., Coffey C.C., Lawrence R.B.: The Effect of ambient aerosol concentration and exercise on PortaCount™ quantitative fit factors. *J Int Soc Respir Protect*, 21:11-20, 2004.
3. Coffey C.C., Lawrence R.B., Campbell D.L., Zhuang Z., Calvert C.A., Jensen P.A.: Fitting characteristics of eighteen N95 filtering-face piece respirators. *J Occup Environ Hyg*, 1:262-371, 2004.
4. Campbell D., Doney B., Groce D., Greskevitch M., Syamlal G., Coffey C., Bang K.M.: Respirator fit testing practices in the U.S. *J Internl Society Resp Prot*, 22:11-16, 2005.
5. Campbell D.L., Coffey C.C., Jensen P.A., Zhuang Z.: Reducing respirator fit test errors: a multi-donning approach. *J Occup Environ Hyg*, 2:391-399, 2005.
6. Zhuang Z., Coffey C.C., Berry Ann R.: The effect of subject characteristics and respirator features on respirator fit. *J Occup Environ Hyg*, 2:641-649, 2005.
7. Martin S., Coffey C.: NIOSH HEALTH HAZARD EVALUATION REPORT HETA # 2003-0346-2969 Salvation Army Harbor Light Center, St. Louis, Missouri, May, 2005.

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BIOGRAPHICAL SKETCH

Jay F. Colinet, M.S.	Section Chief Tel: 412-386-6825 E-Mail: JColinet@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh, Pittsburgh PA	M.S.	1993	Industrial Engineering
West Virginia University, Morgantown WV	B.S.	1979	Mining Engineering

Positions

12/22/1996-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

1999 Pittsburgh Federal Executive Board - Silver Award for Outstanding Supervisor in a Professional Series

1994 SME Robert Stefanko Award

Other Experience and Professional Memberships

Society for Mining, Metallurgy, and Exploration (SME)

Institute of Industrial Engineers (IIE)

Registered Professional Engineer, Commonwealth of Pennsylvania, 2000

National Committee Assignments: Member, SME Research Council, 2004 to present

Peer Reviewed Publications

Authored/coauthored 50 publications in the area of dust control. Recent publications include:

1. Chekan GJ, Colinet JF, Kissell FN, Rider JP, Vinson RP, and Volkwein JC, 2006. Performance of a Light Scattering Dust Monitor for Use in Underground Mines. SME Transactions, Volume 320.
2. Rider, JP, Colinet, JF and Prokop, AE, 2002. Impact of Control Parameters on Shearer-Generated Dust Levels. SME Transactions, Volume 312, pp. 28-34.
3. Colinet, JF and Jankowski, RA, 2000. Silica Collection Concerns When Using Flooded-Bed Scrubbers. Mining Engineering, Volume 52, No. 4, pp. 49-54.

Book Chapter:

Kissell, FN and Colinet, JF, 2001. Control of Respirable Dust, in Mine Health and Safety Management (Ed: M Karmis), Chapter 20, pp 275-295 (SME: Littleton, Colorado).

NIOSH Publication and Technical Reports:

Kissell, FN, Colinet, JF and Organiscak, JA, 2003. Chapter 3 – Longwall Dust Control, in Handbook for Dust Control in Mining, NIOSH IC 9465, pp. 39-56.

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Conferences:

1. Rider, JP and Colinet, JF, 2006. Dust Controls on Longwalls – Assessment of the State-of-the-Art. Proceedings of 11th US/North American Mine Ventilation Symposium, University Park, Pennsylvania, June 5-7, pp. 225-232.
2. Chekan, GJ, Colinet JF, and Grau III, RH, 2006. Impact of Fan Type for Reducing Respirable Dust at an Underground Limestone Crushing Facility. Proceedings of 11th US/North American Mine Ventilation Symposium, University Park, Pennsylvania, June 5-7, pp. 203-210.
3. Cecala, AB, Zimmer, JA, Colinet, JF and Timko, RJ, 2006. Lowering Respirable Dust at an Iron Ore Concentrator Plant Through Improved Ventilation Practices. Proceedings of 11th US/North American Mine Ventilation Symposium, University Park, Pennsylvania, June 5-7, pp. 189-196.
4. Colinet, JF, Goodman, GVR, Listak, JM, Chekan, GJ, Rider, JP, Pollock, DE and Thimons, ED, 2005. Effective Control of Respirable Dust in Underground Coal Mines in the United States. Proceedings of 8th International Mine Ventilation Congress, Brisbane, Australia, July 6-8, pp. 129- 134.
5. Cecala AB, Zimmer JA, Colinet JF, Timko RJ, and Chekan GJ, 2005. Using Ventilation Control Technology to Reduce Respirable Dust Exposures at U.S. Metal/Nonmetal Mining Operations. Proceedings of 8th International Mine Ventilation Congress, Brisbane, Australia, July 6-8, pp. 157-165.
6. Chekan, GJ, Colinet, JF, and Grau, RH, 2004. Evaluating Ventilating Air Movement in Underground Limestone Mines by Monitoring Respirable Dust Generated from Face Shots, in Proceedings of the 10th U.S. Mine Ventilation Symposium, Anchorage, Alaska, May 17-19, pp. 221-233.
7. Colinet, JF, Chekan, GJ, Listak, JL, and Rider, JP, 2002. Ventilation Impacts on Respirable Dust Control, in Proceedings of the North American/Ninth US Mine Ventilation Symposium, Kingston, Ontario, Canada, June 8-12, pp. 565-572.
8. Colinet, JF and Thimons, ED, 2002. Improving Silica Dust Control Through Targeted Research. SME Preprint 02-189, SME Annual Meeting, Phoenix, AZ, February 25-27.

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BIOGRAPHICAL SKETCH

Jean Mary Cox-Ganser, Ph.D.	Field Studies Branch, Research Team Supervisor – JJC8@cdc.gov – (304) 285-5818		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Natal, South Africa	B.Sc.	1973	Biological Sciences
University of Natal, South Africa	B.Sc.Hons	1974	Animal Behavior and Immunology
University of Natal, South Africa	M.Sc.	1986	Biological Sciences
West Virginia University, Morgantown, WV	Ph.D.	1990	Animal Science
West Virginia University, Morgantown, WV	M.S.	1992	Statistics

Positions

1977-1978 Lecturer in Biology University of Natal Medical school.
1978-1983 Project Leader Pollution Research Group, University of Natal, Durban.
1984-1988 Graduate Research Assistant, Dept. of Animal Science, WVU.
1988-1989 Graduate Research Assistant, Particle Analysis Center, White Hall, WVU.
1990-1991 Post-Doctoral Research Fellow, Department of Animal Science, WVU.
1991-1993 Bio-Statistician, Department of Community Medicine, WVU.
1993-2003 Adjunct Assistant Professor, Dept. of Community Medicine, WVU.
1993-2002 Epidemiologist, FSB, DRDS/NIOSH/CDC; Morgantown, WV.
2002-2003 Acting Team Leader, Epidemiology Team, DRDS/NIOSH/CDC; Morgantown, WV.
2004 Acting Deputy Director OD, DRDS/NIOSH/CDC; Morgantown, WV.
2004-present Research Team Supervisor, FSB, DRDS/NIOSH/CDC; Morgantown, WV.

Honors

Member of the honor societies Gamma Sigma Delta Phi Kappa Phi.

Membership in study panels and committees

2000-2001 Member of the advisory group for American Thoracic Society World Lung Health Committee
2002-2003 Member of the editorial committee for the World Health Organisation proposed document:
Guidance for Biological Agents in the Indoor Environment
2004-2005 Member of the organizing committee for the Surgeon General's Workshop on Healthy Indoor Environments
2005 Member of international workgroup on research priorities and review of the health effects of glucan exposure, Organic Dust Committee, International Commission on Occupational Health
2006 Member of the NIOSH Services Sector Steering Committee

Selected publications

1. Cox-Ganser JM, Jung GA, Pushkin RT, Reid L. Evaluation of Brassicas in Grazing Systems for Sheep. II. Blood Composition and Nutrient Status. J. Anim. Sci. 1994; 832-841.
2. Kaufman H, Bodensteiner J, Burkhart B, Gutman L, Kopitnik T, Hochberg V, Loy N, Cox-Ganser J, Hobbs G. Treatment of Spastic Gait in Cerebral Palsy, West Virginia Medical Journal, 1994; 90(5):190-192.
3. Ducatman B, Cox-Ganser J, Dosemeci M, Ducke G, Erren T, Hubbs AF, Jacobsen M, McCawley M, Morfeld P, Ong T-M, Piekarski C, Rothman N, Saffiotti U, Schulz H, Vallyathan V. A New Way to Look at Old Questions of Silica Carcinogenicity, Applied Occupational Environmental Hygiene, 1997; 12(12)919-923.

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4. Kreiss K, Cox-Ganser J. Metalworking fluid-associated hypersensitivity pneumonitis: a workshop summary, *American Journal of Industrial Medicine*, 1997; 32(4):423-432.
5. Cox-Ganser J, Kreiss K. Report on the January 1997 Detroit workshop on metalworking fluid-associated hypersensitivity pneumonitis. Proceedings of "The Industrial Metalworking Environment: Assessment and Control of Metal Removal Fluids, September 15-17, 1997, Detroit MI", AAMA MWF Symposium II, September 1998; 73-79.
6. Cox-Ganser J, Kullman G, Short S. HETA Survey of Pickle Packaging Plants Michigan Department of Health and Human Services, Centers for Disease Control, National Institute for Occupational safety and Health, DHHS (NIOSH) 1998; Publication No. 93-0868.
7. O'Malley M, Kullman G, Cox-Ganser J, Flesch J. Preventing Phosphine Poisoning and Explosions during Fumigation: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational safety and Health, DHHS (NIOSH), 1999; Publication No. 99-126.
8. Jacobsen MD, Cox-Ganser J. Study of the Feasibility of Research on Pathologic Types of Lung Cancer in Silica and Radon-exposed Miners, Final Report, NTIS, 2000; publication PB2001101410.
9. Cox-Ganser J, Rao CY. Benefis Healthcare Great Falls, Montana, U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational safety and Health, DHHS (NIOSH), 2001; Publication No. HETA 2000-0255-2868.
10. Cox-Ganser JM, Rao CY, Kreiss K. Work-related asthma symptoms correlate with environmental measures in a healthcare facility In: *Indoor Air 2002: Proceedings of the 9th International Conference on Indoor Air Quality and Climate Vol I*, H. Levin ed., Indoor Air 2002, Monterey, California; pp91-96.
11. Rao CY, Cox-Ganser JM. Correlations of particles, allergens, fungi and bacteria in air and chair dust in a hospital setting, In: *Indoor Air 2002: Proceedings of the 9th International Conference on Indoor Air Quality and Climate Vol IV*, H. Levin ed., Indoor Air 2002, Monterey, California; pp365-370.
12. Park J, Schleiff PL, Attfield MD, Cox-Ganser J, Kreiss K. Building-related respiratory symptoms can be predicted with semi-quantitative mold exposure index. *Indoor Air* 2004; 14:425-433.
13. Cox-Ganser JM, White SK, Jones R, Hilsbos K, Storey E, Enright PL, Rao CY, Kreiss K. Respiratory morbidity in office workers in a water-damaged building. *Environ Health Persp* 2005 113:485-490.
14. Rao CY, Cox-Ganser JM, Chew GL, Doekes G, White S. Use of surrogate markers of biological agents in air and settled dust samples to evaluate a water-damaged hospital. *Indoor Air* 2005; 15(Suppl 9):89-97.
15. Park JH, Cox-Ganser J, Rao C, Kreiss K. Fungal and endotoxin measurements in dust associated with respiratory symptoms in a water-damaged office building. *Indoor Air*. 2006 Jun;16(3):192-203.
16. Brandt M, Brown C, Burkhardt J, Burton N, Cox-Ganser J, Damon S, Falk H, Fridkin S, Garbe P, McGeehin M, Morgan J, Page E, Rao C, Redd S, Sinks T, Trout D, Wallingford K, Warnock D, Weissman D. Mold prevention strategies and possible health effects in the aftermath of hurricanes and major floods. *MMWR Recomm Rep*. 2006 Jun 9;55(RR-8):1-27.
17. Sahakian N, White S, Park J-H, Cox-Ganser J, Kreiss K. Identification of Mold and Dampness-associated Respiratory Morbidity in Two Schools: Comparison of Questionnaire Survey Responses to National Data. *Journal of School Health* 2007; (In press).

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BIOGRAPHICAL SKETCH

03-31-2006

Kristin J Cummings, M.D., M.P.H.	Epidemic Intelligence Service Officer Tel: (304) 285 6102 E-mail: KCummings@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Harvard University	B.A.	1994	Biology
Johns Hopkins University School of Public Health	M.P.H.	1999	Public Health
Johns Hopkins University School of Medicine	M.D.	2000	Medicine

Positions

1994-1995	Science Teacher, Colegio Jorge Washington, Cartagena, Colombia
2000-2001	Intern, Department of Medicine, Stanford University Medical Center, Stanford, CA
2001-2003	Resident, Department of Medicine, Stanford University Medical Center, Stanford, CA
2003-2004	Assistant Professor, Department of Medicine, UCSD Medical Center, San Diego, CA
2004-2005	Fellow, Institute of Occupational and Environmental Health, West Virginia University, Morgantown, WV
2005-Date	EIS Officer, National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV and CDC, Atlanta, GA.

Honors

1993	Phi Beta Kappa, Harvard University
1994	BA awarded <i>magna cum laude</i> , Harvard University
1996	Franklin Paine Mall Prize in Anatomy, John Hopkins University
2000	Alpha Omega Alpha, Johns Hopkins University
2003	Resident Professionalism Award, Stanford University
2005	Resident Research Presentation Award, American Occupational Health Conference

Peer Reviewed Publications

1. Cummings K.J., Lee S.M., West E.S., Cid-Ruzafa J., Fein S.G., Aoki Y., Sulkowski M.S., Goodman S.N.: Interferon and Ribavirin vs Interferon alone in the re-treatment of chronic hepatitis C previously nonresponsive to Interferon: a meta-analysis of randomized trials. *JAMA*, 285:193-199, 2001.
2. Santiago E.M., Lawson E., Gillenwater K., Kalangi S., Lescano A.G., Du Quella G., Cummings K.J., Cabrera L., Torres C., Gilman R.H.: A prospective study of bacillus Calmette-Guerin scar formation and tuberculin skin test reactivity in infants in Lima, Peru. *Pediatr*, 112 4:e298-e302, 2003.

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BIOGRAPHICAL SKETCH			
Maryann M. D'Alessandro, Ph.D.		Associate Director for Science, OD, NPPTL, NIOSH Tel: (412) 386 4033 E-mail: bpj5@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Florida Institute of Technology Melbourne, FL	B.Sc.	1988	Electrical Engineering
Georgia Institute of Technology Atlanta, GA	Ph.D.	2001	Electrical/Biomed Eng

Positions

1988 – 1990	<u>Research Engineer:</u> Communications Electronics Command (CECOM) Electronic Warfare Center, FT Monmouth, NJ
1990 – 1993	<u>Project Engineer and Manager:</u> Communications Electronics Command (CECOM) Space Systems Dir., FT Monmouth, NJ
1993 – 1994	<u>Manager:</u> Headquarters Company, Fort Monmouth, NJ
1994 – 1995	<u>Research Engineer:</u> US Army Systems Manager for Satellite Communications, Fort Gordon, GA
1995 – 1998	<u>Research Engineer:</u> US Army at GA Institute of Technology, Atlanta, GA
1998 – 2000	<u>Signal Processing Engineer:</u> US Army Research Lab, Atlanta, Georgia
2000 – 2002	<u>Science Advisor:</u> US Army Forces Command, FT McPherson, GA
2002 – 2003	<u>Research Engineer:</u> Dept of Bioengineering, University of PA, Phil., PA
2003-Present	<u>Associate Director for Science:</u> NPPTL/NIOSH/CDC; Pittsburgh, PA

Selected Peer Reviewed Publications

D'Alessandro M., Esteller R., et al., "A Multi-feature and Multi-channel Univariate Selection Process for Seizure Prediction," *Clinical Neurophysiology*, 2004.

Esteller R., Echaz J., D'Alessandro M., et al., "Continuous Energy Variation During the Seizure Cycle: Towards an On-line Accumulated Energy," *Clinical Neurophysiology*, 2004.

D'Alessandro M., Esteller R., Vachtsevanos G., Hinson, A., Echaz J., and Litt B., "Epileptic Seizure Prediction Using Hybrid Feature Selection Over Multiple Intracranial EEG Electrode Contacts: A Report of Four Patients," *IEEE Transactions on Biomedical Engineering*, vol. 50, no. 5, May 2003.

Esteller, R., Vachtsevanos G., D'Alessandro M., Litt B., "Intelligent Approach for Detection of Seizure Electrographic onset in Patients with Mesial Temporal Lobe Epilepsy," *Annals of Neurology*, Nov 2002.

Litt B., Esteller R., Echaz J., D'Alessandro M., Shor R., et al., "Epileptic Seizures May Begin Hours in Advance Clinical Onset: A Report of Five Patients," *Neuron*, April 2001.

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Betterton P., D'Alessandro M., Vachtsevanos G., Litt B., "Determining State of Consciousness from the IEEG for Seizure Prediction," *Modeling, ID, and Control 2003 Conf.*, Feb 2003, Innsbruck, Austria.

D'Alessandro M., Vachtsevanos G., Esteller R., Echauz J., Sewell D., and Litt B., "A Systematic Approach to Seizure Prediction Using Genetic and Classifier Based Feature Selection," *2002 Conference on Digital Signal Processing*, July 2002, Santorini, Greece.

D'Alessandro M., Vachtsevanos G., Hinson A., Esteller R., Echauz J., and Litt B., "A Genetic Approach to Selecting the Optimal Feature for Epileptic Seizure Prediction," *Proceedings of the 23rd IEEE International Conference on Engineering in Medicine and Biology*, Oct. 2001, Istanbul, Turkey.

D'Alessandro M., et al., "Spectral Entropy and Neuronal Involvement in Patients with Mesial Temporal Lobe Epilepsy," *Proceedings of the 2000 International Conference on Mathematics and Engineering Techniques in Medicine and Biological Sciences*, June 2000, Las Vegas, NV.

Litt, B., Esteller, R., D'Alessandro, M., et al., "Evolution of Accumulated Energy Predicts Seizures in Mesial Temporal Lobe Epilepsy," *Proceedings of 21st IEEE International Conference on Engineering in Medicine and Biology*, Oct. 1999, Atlanta, GA.

Esteller R, Vachtsevanos G, Echauz J, D'Alessandro et al., "Fractal Dimension Detects Seizure Onset in Mesial Temporal Lobe Epilepsy," *Proceedings of 21st IEEE International Conference on Engineering in Medicine and Biology*, Oct. 1999, Atlanta, GA.

D'Alessandro, Maryann M., "The Cryptoberry Wireless Email Solution," *National Security and Emergency Preparedness Telecom News*, Dec 2002, Arlington, VA.

Litt B., D'Alessandro M., Esteller R., Echauz J., Vachtsevanos G., "Translating Seizure Detection, Prediction, and Brain Stimulation Into Implantable Devices for Epilepsy, First International IEEE EMBS Conference on Neural Engineering, March 2003, Capri Island, Italy.

D'Alessandro M., "Hybrid Feature Selection for Seizure Prediction," First Intl. Workshop on Seizure Prediction, April 2002, Bonn, Germany.

D'Alessandro M., Vachtsevanos G., Hinson A., Esteller R., Echauz J., and Litt B., "Multi-feature and Multi-Channel Synergy for Evaluating the Spatial and Temporal Behavior of Seizure Precursors," *Epilepsia*, Dec 2001, Philadelphia, PA.

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BIOGRAPHICAL SKETCH

07-14-2006

David A. Dankovic, Ph.D.	Senior Team Coordinator, Risk Evaluation Branch Tel: (513) 533 8329 E-Mail: dad4@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Pennsylvania State University	B.Sc.	1967-1971	Chemistry
University of Michigan	Ph.D.	1972-1982	Toxicology

Positions

1982-1985	Post-doctoral scholar, University of Texas Health Science Center, Houston, TX, Department of Pharmacology and Toxicology.
1985-1988	Post-doctoral scholar, Battelle Pacific Northwest Laboratory, Richland, WA.
1988-1990	Toxicologist, Division of Biomedical and Behavioral Sciences, NIOSH, Cincinnati, OH.
1991-1995	Toxicologist, Division of Standards Development and Technology Transfer, NIOSH, Cincinnati, OH.
1996-1998	Toxicologist, Education and Information Division, NIOSH, Cincinnati, OH.
1999-present	Senior Team Coordinator, Risk Evaluation Branch, Education and Information Division, NIOSH, Cincinnati, OH.

Other Experience and Professional Memberships

Society of Toxicology

Peer Reviewed Publications

1. E.D. Kuempel, R.J. Smith, D.A. Dankovic, A.J. Bailer, and L.T. Stayner, [2002], "Concordance of rat and human based risk estimates for particle related lung cancer." *Ann. Occ. Hyg* 46 (Supplement 1):62-66.
2. Kuempel ED, Tran CL, Bailer AJ, Smith RJ, Dankovic DA, Stayner LT, [2001], "Methodological issues of using observational human data in lung dosimetry models for particulates." *Science Total Environ* 274(1-3):67-77.
3. Kuempel ED, O'Flaherty EJ, Stayner LT, Smith RJ, Tran C-L, Dankovic D, Bailer AJ, [2000], "Evaluation of Particle Clearance and Retention Kinetics in the Lungs of U.S. Coal Miners." *Inhal Toxicol* 12(Suppl. 3):397-402.
4. Stayner, L, Dankovic DA, Smith RJ, Gilbert SJ and Bailer J, [2000], "Human cancer risk and exposure to 1,3-butadiene - A tale of mice and men." *Scand J Work Environ Health*, 26(4),322-330.
5. V. Vu, J.C. Barrett, J. Roycroft, L. Schuman, D. Dankovic, P. Baron, T. Martonen, W. Pepelko, and D. Lai, [1996], "Workshop Report: Chronic Inhalation Toxicity and Carcinogenicity Testing of Respirable Fibrous Particles." *Regulatory Toxicol. Pharmacol.* 24: 202-212.
6. L.T. Stayner, D.A. Dankovic, and R.A. Lemen, [1996], "Occupational Exposure to Chrysotile Asbestos and Cancer Risk: A Review of the "Amphibole Hypothesis." *Am. J. Public Health* 86:179-186.
7. D.A. Dankovic and A. John Bailer, [1994], "The Impact of Exercise and Intersubject Variability on Dose Estimates for Dichloromethane Derived from a Physiologically-based Pharmacokinetic Model." *Fund. and Appl. Toxicol.* 22:20-25.
8. D.A. Dankovic, R.J. Smith, L.T. Stayner, and A.J. Bailer, [1993], "Time-to-tumour risk assessment for 1,3-butadiene based on exposure of mice to low doses by inhalation." In: *Butadiene and Styrene: Assessment of Health Hazards*, IARC Scientific Publication No. 127, M. Sorsa, K. Peltonen, H. Vainio, and K. Hemminki, Editors. International Agency for Research on Cancer, Lyon, pp. 335-344.

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BIOGRAPHICAL SKETCH

03-30-2006

Brent C. Doney, M.S.	Industrial Hygienist Tel: (304) 285 6357 E-mail: bdoney@cdc.gov		
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Northern Montana College, Havre, MT	A.S.	1980-1981	Water Quality Technology
Montana State University, Bozeman, MT	B.S.	1981-1983	Microbiology
Montana Tech, Butte, MT	M.S.	1983-1985	Industrial Hygiene
West Virginia University, Morgantown, WV		2003-Date	Public Health (Occupational Health and Epidemiology)

Positions

- 1984-1986 Industrial Hygienist, North Dakota State Department of Health, Bismarck, North Dakota
1986-2000 Occupational Health and Safety Administration (OSHA) in the Bismarck, ND and Billings, MT Area Offices
2000-Date Industrial Hygienist, Surveillance Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

- 1995 U.S. Department of Labor Secretary's Awards
1996 U.S. Department of Labor Secretary's Awards
1997 U.S. Department of Labor Secretary's Awards
2002 U.S. Department of Health and Human Services Secretary's Award for Distinguished Service
2002 CDC Safety Award

Other Experience and Professional Memberships

- 1983-Date Hazardous Waste Operations and Emergency Response
1984-Date American Conference of Governmental Industrial Hygienists (ACGIH)
1988-Date Certified Industrial Hygienist by the American Board of Industrial Hygiene
1991-Date Hazardous Waste Operations and Emergency Response

Peer Reviewed Publications

1. Doney B., Spear T.: Characterization of ethylene oxide concentrations in three Montana hospitals. *Proc Montana Acad Sci*, 45:73-76, 1985.
2. Doney B.: Solvent, wood dust, and noise exposure in a decoy shop. *Appl Occup Environ Hyg*, 10(5):446-449, 1995.
3. Doney B., and others from the Surveillance Branch, Division of Respiratory Disease Studies, NIOSH: National Institute for Occupational Safety and Health. Work-Related Lung Disease Surveillance Report 2002. *DHHS (NIOSH) Number 2003-111*. Cincinnati, OH: NIOSH, 2003.
4. Doney B., Groce D., Campbell D., Hoffman W., Greskevitch M., Middendorf P., Syamlal G., Bang K.M.: Bureau of Labor Statistics (BLS)/National Institute for Occupational Safety and Health (NIOSH): Respirator usage in private sector firms, 2001. Washington, D.C.: BLS, 2003.
5. Doney B., Greskevitch M., Middendorf P., Groce D.: Which substances prompt respirator use? *J Int Soc Respir Prot*, 20(3/4):125-134, 2003.
6. Doney B., Greskevitch M., Hoffman W., Groce D.: Usefulness of respirator manufacturer user's instructions and NIOSH approval labels. *J Int Soc Respir Prot*, 21 1/2:31-39, 2004.

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7. Henneberger P., Goe S., Miller W., Doney B., Groce D.: Industries in the United States with airborne beryllium exposures and estimates of the number of current workers potentially exposed. *J Occup Environ Hyg*, 1:648-659, 2004.
8. Doney B., Greskevitch M., Groce D., Campbell D., Hoffman W., Middendorf P., Syamlal G., Bang, K.: A survey of private sector respirator use in the United States: An overview of findings. *J Occup Environ Hyg*, 2:267-276, 2005.
9. Bang K.M., Hnizdo E., Doney B.: Prevalence of asthma by industry in the US population: A study of 2001 NHIS data. *Am J Ind Med*, 2005.
10. Campbell D., Doney B., Groce D., Greskevitch M., Syamlal G., Coffey C., Bang K.M.: Respirator fit testing practices in the U.S. *J Int Soc Respir Prot*, 20 3/4:125-134, 2005.
11. Doney B., Greskevitch M., Groce D., Day B., Bang K.M.: OSHA respirator program requirements: How does Your program measure up? *Journal of Protective Coatings & Linings*, 2005.

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BIOGRAPHICAL SKETCH

6-8-2006

G. Scott Earnest, Ph.D., P.E.		Branch Chief Tel: (513)841-4539 E-mail: GEarnest@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Purdue University, West Lafayette, IN	B.S.	1983-1987	Engineering
University of Cincinnati, Cincinnati, OH	M.S.	1992-1996	Engineering
University of Minnesota, Minneapolis, MN	Ph.D.	1997-2000	Engineering

Positions

2005-Present NIOSH, DART. Branch Chief, Cincinnati, OH
2003 – 2004 NIOSH, Section Chief/Team Leader, Cincinnati, OH
1992 – 2002 Mech. Engineer, Control Tech. Section, Cincinnati, OH

Honors

2004 & 2001 N.S.P.E. “Engineer of the Year” Awards (2) (PHS-2004 & CDC-2001)
2004 NIOSH Alice Hamilton Award for Excellence
2003 Federal Executive Board (FEB) Excellence Award (Professional/Scientific)
2003 American Industrial Hygiene Association (AIHA) Best Paper Award
2003 & 1996 Public Health Service Commendation Medals (2)
2003-2002 Public Health Service Outstanding Unit Commendation Medals (3)
2004, 2003, 1999-(2) Public Health Service Engineering Literary Awards (4)
1998 Public Health Service Achievement Medal
1996 & 1991 Public Health Service and U.S. Army Foreign Duty Service Awards (2)
1990 U.S. Army Bronze Star Medal (Operation Desert Shield/Storm-combat award)

Other experience and professional memberships

Alpha Pi Mu Industrial Engineering Honor Society- University of Cincinnati Chapter
Commissioned Officer’s Association of the United States Public Health Service
American Industrial Hygiene Association – Engineering Committee
American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) Committee Vice-chair:
SPC 161P: Indoor Air Quality on Commercial Aircraft
PHS Engineering Professional Advisory Committee (EPAC)

Peer-reviewed publications (most recent listed)

1. Guidelines for Prevention and Control of Tuberculosis in Correctional and Detention Facilities. [2006]. MMWR -Earnest, G.S.--Contributor U.S. DHHS, CDC, Atlanta, GA.
2. Hammond, D.R.; Earnest, G.S.; Hall, R.M. Feng, A. An Evaluation of Factors that may Affect the Performance of Houseboat Exhaust Stacks in Prevention of Carbon Monoxide Poisonings from Generators. *Journal of Occupational and Environmental Hygiene*. 2006, 3: 308-316.
3. Hall, R.H., Earnest, G.S., Carrol, J.N., Spencer, A. Evaluation of Carbon Monoxide Emissions from Engines on Recreational Boats Equipped with Prototype Catalysts. *Journal of Occupational and Environmental Hygiene*. 2006, 3: D4-D7.
4. Guidelines for Preventing the Transmission of *Mycobacterium tuberculosis* in Health-Care Settings” [2005]. MMWR 54: 1-141. -Earnest, G.S.--Contributor U.S. DHHS, CDC, Atlanta, GA.
5. Hayden, C.S., Earnest, G.S., Fischbach, T.J., Johnston, O.E., Jensen, P.A. Development and Evaluation of a Model to Aid in Designing Negative Pressure Isolation Rooms. Submitted to Applied Occupational and Environmental Hygiene Journal. 2006.

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- Earnest GS., Gressel, M.G., Mead, K.R. Using Filtration Systems to Protect Building Environments from Airborne Chemical, Biological, or Radiological Attacks. *Engineered Systems*. Oct. 2005, 38-47.
- Sebastian S, Wasil JR, Earnest GS [2004]. Carbon Monoxide Emissions from Marine Outboard Engines. Society of Automotive Engineers (SAE) 2004 Transactions Journal of Fuels and Lubricants. Technical Paper No. 2004-32-0011.
- Hall, R.H., Trout, D., Earnest, G.S. An Industrial Hygiene Survey of an Office Building in the Vicinity of the World Trade Center: Assessment of Potential Hazards Following the Collapse of the World Trade Center Buildings. *Journal of Occupational and Environmental Hygiene*. 2004, 1: D49-D53.
- Earnest GS. Letter to the Editor: Houseboat Magazine Subject: Use of Houseboat Generator Exhaust Stacks to Prevent Carbon Monoxide (CO) Poisonings to Boaters. 2004
- Engineering Controls for Tuberculosis: Upper-Air Ultraviolet Germicidal Irradiation. Earnest G.S.-- Contributor [In draft], U.S. DHHS, CDC, NIOSH, Cincinnati, OH. 2006.
- Risk Management Series: Reference Manual to Mitigate Potential Terrorist Attacks against Buildings.- Earnest, GS.-- Contributor FEMA-426. Washington D.C. 2003.
- Dunn, K.H., Shulman, S., Earnest, G.S., Hall, R.M., McCammon, J.B., McCleery, R. [2003]. Carbon Monoxide and Houseboats: An Evaluation of a Stack Exhaust System to Reduce Poisonings Associated with Generator Exhaust. *Professional Safety*. Nov. 2003
- Trout, D., Nimgade, A., Mueller, C., Hall, R., Earnest, G.S. Health Effects and Occupational Exposures Among Office Workers Near the World Trade Center Disaster Site. *Journal of Occupational and Environmental Medicine*. (44)7: 601-605, 2002.

Other publications

- Garcia, A., Beamer, B., Earnest G.S., [2006]. Carbon Monoxide Emissions and Exposures on Express Cruisers under various Operating Conditions Merritt Island, FL; Orlando, FL; Fort Myers, FL; Charlotte, NC; and Millville, NJ.. USDHHS, PHS, CDC, NIOSH, Cincinnati, Ohio, EPHB No. 289-11a.
- Marlow, D; Hammond, D; Earnest, G.S. [2005]: Evaluation of the "Sideswipe" Exhaust System to Reduce Carbon Monoxide Exposure during Motor Boating and Wake Surfing. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. EPHB 171-37a.
- Marlow, D; Guishard, C; Patterson, A.; Earnest, G.S. [2004]: Evaluation of the "Fresh Air Exhaust" System to Reduce Carbon Monoxide Exposure during Motor Boating and Wake Surfing. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. EPHB 171-35a.
- Hall RM; Hammond, D.R.; Earnest, G.S. [2004]: Evaluation of Two Exhaust Stack Configurations on Two Houseboats at Table Rock Lake, Missouri. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. HETA 2003-0318.
- Khan, A., Willson, R.D., Earnest, G.S. [2003] Walk-through Survey Report: Observations and Recommendations for Reducing Exposures to Chloramines at Bil-Mar Foods, Sara Lee Inc. Storm Lake, Iowa, USDHHS, PHS, CDC, NIOSH, Cincinnati, Ohio, EPHB No. 295-11a.
- Earnest G.S., Dunn, K., Hall, R., Hammond, D., Valladares, R. [2003]. An Evaluation of Vertical Exhaust Stacks and Aged Production Emission Control Devices to Prevent Carbon Monoxide Poisonings from Houseboat Generator Exhaust. Lake Mead, Nevada. USDHHS, PHS, CDC, NIOSH, Cincinnati, Ohio, EPHB No. 171-32a.

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BIOGRAPHICAL SKETCH

6-8-2006

Alan Echt, M.P.H.	Industrial Hygienist Tel: (513)841-4111 E-mail: AEcht@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of California, Riverside, CA	B.S.	1978-1981	Psychobiology
University of Michigan, Ann Arbor, MI	M.P.H.	1983-1985	Industrial Health
University of Kentucky, Lexington	---	2002-present	Epidemiology

Positions

1990-present	Industrial Hygienist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
1989-1990	Senior Industrial Hygiene Specialist, B.P. Oil Co., Marcus Hook Refinery, Marcus Hook, PA
1987-1989	Industrial Hygienist (GS-690-11), Philadelphia Naval Shipyard, Philadelphia, PA
1985-1987	Health Compliance Officer, North Carolina Dept of Labor, Division of Occupational Safety and Health, Raleigh, NC

Honors

2003, 2003, 2002	PHS - Outstanding Unit Citation (3)
2002, 1993	PHS - Citation (2)
2002, 2000, 1999, 1993-95	PHS - Unit Commendation (6)
2002	PHS - Crisis Response Service Award
2002	FEMA - Certificate of Appreciation
2002	ACGIH - Meritorious Achievement Award (group award)
2002	CDC - Certificate of Recognition
2001	SAME - Cumming Award (group award)
2001	HHS - Secretary's Recognition Award
2001	PHS - EHOPAC Edward "Ted" Moran Award
2000	Greater Cincinnati Federal Executive Board – Finalist, Federal Service Excellence Award
1999	NIOSH - Alice Hamilton Award, Educational Materials
1998	PHS - Bicentennial Unit Commendation
1996	PHS - Achievement Medal
1996	PHS - Hazardous Duty Award

Other experience and professional memberships

Diplomate, American Academy of Industrial Hygiene (1989 – present)

Peer-reviewed publications (most recent listed first)

1. Sanderson W, Stoddard R, Echt A, Piacitelli C, Kim D, Horan J, Davies M, McCleery R, Muller P, Schnorr T, Ward E, Hales T [2004] Bacillus anthracis contamination and inhalational anthrax in a mail processing and distribution center. *Journal of Applied Microbiology*, 96:1048-1056.
2. Echt A, Sieber W, Jones E, Schill D, Lefkowitz D, Sugar J, Hoffner K [2003]. Case studies: Control of respirable dust and crystalline silica from breaking concrete with a jackhammer. *Appl. Occup. Environ. Hyg.* 18:491-495.
3. Echt A, Sieber W, Jones A, Jones E [2002]. Case studies: Control of silica exposure in construction: scabbling concrete. *Appl. Occup. Environ. Hyg.* 17:809-813.
4. Echt A, Sieber WK [2002]. Case studies: Control of silica exposures from hand tools in construction: grinding concrete. *Appl. Occup. Environ. Hyg.* 17:457-461.

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5. Sanderson W, Stoddard R, McCleery R, Echt A, Piacitelli C, Kim D, Small D, Klusaritz B, Muller P [Centers for Disease Control and Prevention] [2002]. Evaluation of Bacillus anthracis contamination inside the Brentwood Mail Processing and Distribution Center-District of Columbia, October 2001. JAMA 287:445-446.
6. Roegner K, Sieber WK, Echt A [2002]. Case studies: Evaluation of diesel exhaust controls. Appl. Occup. Environ. Hyg. 17:1-7.
7. Sanderson W, Stoddard R, McCleery R, Echt A, Piacitelli C, Kim D, Small D, Klusaritz B, Muller P. [Centers for Disease Control and Prevention] [2001]. Evaluation of Bacillus anthracis contamination inside the Brentwood Mail Processing and Distribution Center-District of Columbia, October 2001. MMWR 50:1129-1133.
8. Wallace M, Landon D, Song R, Echt A [2001]. Case studies: A field evaluation of the effect of pulsed arc welding technique on reducing worker exposures. Appl. Occup. Environ. Hyg. 16: 93-97.
9. Echt A, Dunn KH, Mickelsen RL [2000]. Case studies: Automated abrasive blasting equipment for use on steel structures. Appl. Occup. Environ. Hyg. 15: 713-720.
10. Rubman MH, Siegel MG, Echt AS, Burroughs GE, Lenhart SW [1998]. Levels of carbon dioxide in helmet systems used during orthopaedic operations. J. Bone and Joint Surg. 80-A:1264-1269.
11. Echt A, Burroughs GE, Rubman MH, Booher DE [1998]. Case studies: Carbon dioxide exposures to medical personnel as a result of wearing surgical isolation suits. Appl. Occup. Environ. Hyg. 13:87-90.
12. Echt AS, Burr GA [1997]. Case studies: Exposure to formaldehyde at a garment manufacturing plant. Appl. Occup. Environ. Hyg. 12:451-455.
13. Echt A, Hayden C II, Johnston O [1997]. Case studies: Hazards at your auto dealership (including everything you ever wanted to know about a tail-pipe exhaust ventilation system). Appl. Occup. and Environ. Hyg. 12:235-241.
14. Sim MR, Echt A. [1996]. An outbreak of pruritic skin lesions in a group of laboratory workers - A case report. Occupational Medicine. 48:235-8
15. Echt A, Sheehy J, Blade L [1995]. Case studies: exposure to diesel exhaust emissions at three fire stations: evaluation and recommended controls. Appl. Occup. and Environ. Hyg. 10: 431-438.
16. Sanderson WT, Weber A, Echt A [1995]. Case reports: epidemic eye and upper respiratory irritation in poultry processing plants. Appl. Occup. and Environ. Hyg. 10: 43-49.
17. Decker J, Echt A, Kiefer M, Burr G [1992]. Case studies: personal heat stress monitoring. Appl. Occup. and Environ. Hyg. 7:567-571.
18. Echt A, Froelich P, Heitbrink W, Mickelsen L, Montopoli M, Sussell A [1992]. NIOSH guidelines on safety during lead paint operations. Journal of Protective Coatings and Linings 9:40-54.

Other publications

Author 1 encyclopedia entry

Coauthor 1 educational videotape

Coauthor 1 NIOSH Hazard Review

Coauthor 1 NIOSH Alert

Author/Coauthor 50 NIOSH Control Technology Reports

Author/Coauthor 23 NIOSH Hazard Evaluation and Technical Assistance Reports

Presentations

19 presentations at conferences, meetings and symposia (1993-)

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BIOGRAPHICAL SKETCH

06-14-2006

Douglas E. Evans, Ph.D.	Senior Service Fellow Tel: (513) 841-4407 E-mail: deevans@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
The University of Sheffield, Sheffield UK	B.S.	1993-1996	Chemistry
The University of Birmingham, Birmingham UK	M.S.	1996-1997	Atmospheric Science
The University of Birmingham, Birmingham UK	Ph.D.	1997-2001	Environmental Health
The University of Michigan, Ann Arbor MI	<i>Post-Doc</i>	2001-2003	Aerosol Science

Positions

- 2004-present Senior Service Fellow (Aerosol Scientist), Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 2001-2003 Postdoctoral Research Fellow, The University of Michigan, School of Public Health, Department of Environmental Health Sciences

Honors

- 2006 Charles C. Shepard award nomination, CDC
- 2006 Alice Hamilton Award, Biological Sciences Category, CDC/NIOSH

Other experience and professional memberships

- Member, The American Association for Aerosol Research (2002-present)
- Member, The Aerosol Society (UK) (2000-present)
- Member, The Royal Society of Chemistry (UK) (1993-2005)
- Manuscript reviewer for: Journal of Aerosol Science; Aerosol Science and Technology; Annals of Occupational Hygiene and the Journal of Environmental Monitoring

Peer-reviewed publications

1. Heitbrink W.A., Evans D.E., Peters T.M. and Slavin T.J. (2006) The characterization and mapping of very fine particles in an engine machining and assembly facility *J. Environ. Occup. Hyg.*, (Submitted).
2. Saiyasitpanich P., Keener T.C., Lu, M.M., Khang S.J. and Evans D.E. (2006) Collection of ultrafine Diesel particulate matter (DPM) in cylindrical single-stage wet electrostatic precipitators. *Environ. Sci. Technol.*, (Submitted).
3. Peters T.M., Heitbrink W.A., Evans D.E., Slavin T.J. and Maynard A.D. The mapping of fine and ultrafine particle concentrations in an engine machining and assembly facility. *Ann. Occup. Hyg.*, Vol. 50, No. 3, pp.249-257, (2006).
4. Brixey L.A., Evans D.E. and Vincent J.H. Aspiration efficiency of a thin-walled probe at right angles to the wind. *J. Aerosol Sci.*, Vol. 36, No. 9, pp. 1144-1156 (2005).
5. Shvedova A.A., Kisin E.R., Mercer R., Murray A.R., Johnson V.J., Potapovich A.I., Tyurina Y., Gorelik O., Arepalli S., Schwegler-Berry D., Hubbs A.F., Antonini J., Evans D.E., Ku B.K., Ramsey D., Maynard A.D., Kagan V.E., Castranova V., and Baron P. Unusual inflammatory and fibrogenic pulmonary responses to single-walled carbon nanotubes in mice. *Am. J. Physiol. Lung Cell Mol. Physiol.* 289: L698-L708, (2005).

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6. Tunnicliffe W.S., Evans D.E., Harrison R.M. Kelly F.J., Dunster C. and Ayres J.G. The effect of sulphurous air pollutant exposures on symptoms, lung function, exhaled nitric oxide, and nasal epithelial lining fluid antioxidant concentrations in normal and asthmatic adults. Vol. 60., *Occup. Environ. Med.* (2003).
7. Evans D.E., Harrison R.M. and Ayres J.G. The generation and characterization of metallic and mixed elemental aerosols for human challenge studies. *Aerosol Sci. & Technol.*, Vol. 37, Iss.12, pp. 975-987 (2003).
8. Evans D.E., Harrison R.M. and Ayres J.G. The generation and characterisation of elemental carbonaceous aerosol for human challenge studies. *J. Aerosol Sci.*, Vol. 34, No. 8, pp. 1023-1041, (2003).
9. Brixey L.M., Paik S.Y., Evans D.E. and Vincent J.H. Experimental studies to develop new aerosol samplers and methods for their evaluation. *J. Environ. Monit.*, Vol. 4, pp. 633-641, (2002).
10. Shi J.P., Harrison R.M., Evans D.E., Khan A.A., Barnes C. and Carter G. A method for measuring particle number emissions from vehicles on road. *Environ. Technol.*, Vol. 23, pp. 1-14, (2002).
11. Shi J.P., Harrison R.M. and Evans D.E. Comparison of ambient particle surface area measurement by epiphaniometer and SMPS/APS. *Atmos. Environ.*, Vol. 35, No. 12, pp. 6193-6200 (2001).
12. Shi J.P., Evans D.E., Khan A.A. and Harrison R.M. Sources and concentrations of nanoparticles in the urban atmosphere. *Atmos. Environ.*, Vol. 35, No. 7, pp. 1203-1215, (2001).
13. Tunnicliffe W.S., Evans D.E., Mark D., Harrison R.M. and Ayres J.G. The effect of exposure to sulphuric acid on the early asthmatic response to inhaled grass pollen allergen. *Eur. Resp. J.*, Vol. 18, Iss. 4, pp. 640-646 (2001).

Other publications

1. Co-authored, Approaches to Safe Nanotechnology: An Information exchange with NIOSH. A continually updated web-based document (2005).
2. Vincent J.H., Brixey L.A. and Evans D.E. Methods for Developing and Testing Aerosol Samplers. Final report for CDC-NIOSH Grant 5 RO1-OH 02984-06 (2003).
3. Vincent J.H., Paik S.Y. and Evans D.E. The Development of New Personal Aerosol Samplers. Final report for CDC-NIOSH Grant RO1-OH 03687-03 (2002).
4. Evans D.E. The Generation of Model Aerosols for Human Exposure Studies. A thesis submitted in partial fulfillment for the degree of Doctor of Philosophy, Division of Environmental Health and Risk Management, The University of Birmingham, Birmingham UK, (2001).

Presentations

Author / Co-author of 15 presentations/posters at conferences, meetings and symposia (2001-present)

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BIOGRAPHICAL SKETCH

03 -31-2006

Kathleen Bisbee Kinsley Fedan	Statistician (Health) Tel: (304) 285 6289 E-mail: kfedan@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Illinois, Urbana, IL	B.S.	1980	Biology (Ecology)
University of Wyoming, Laramie, WY		1982-1984	Statistics

Positions

1980-1981	Visiting Research Specialist in the Biological Sciences, Department of Ecology, Ethology, and Evolution, University of Illinois, Urbana, IL
1982	Biological Consultant, Allen County Soil and Water Conservation District, Fort Wayne, IN
1982-1984	Graduate Teaching Assistant, Department of Statistics, University of Wyoming, Laramie, WY
1982-1984	Statistical Consultant, Statistical Consulting Center, Department of Statistics, University of Wyoming, Laramie, WY
1984-1990	Statistical Assistant, Clinical Investigations Branch, DRDS, NIOSH, CDC, Morgantown, WV
1990-1999	Statistician (Health), Clinical Investigations Branch, DRDS, NIOSH, CDC, Morgantown, WV
1999-Date	Statistician (Health), Field Studies Branch, DRDS, NIOSH, CDC, Morgantown, WV

Honors

1984	Master's Award for Outstanding Academic Performance, Department of Statistics, University of Wyoming
1984	John P. Ellbogen Outstanding Graduate Teaching Assistant, Department of Statistics, University of Wyoming

Peer Reviewed Publications

1. Hankinson J.L., Castellán R.M., Kinsley K.B., Keimig D.G.: Effect of spirometer temperature on measurement of FEV₁ shift changes. *J Occup Med*, 28 12:1222-1225, 1986.
2. Castellán R.M., Olenchock S.A., Kinsley K.B., Hankinson J.L.: Inhaled endotoxin and decreased spirometric values: an exposure-response relationship for cotton dust. *N Engl J Med*, 317 10:605-610, 1987.
3. Keimig D.G., Castellán R.M., Kullman G.J., Kinsley K.B.: Respiratory health status of gilsonite workers. *Am J Ind Med*, 11 3:287-296, 1987.
4. Ghio A.J., Castellán R.M., Kinsley K.B., Hankinson J.L.: Changes in forced expiratory volume in one second and peak expiratory flow rate across a work shift among unexposed blue collar workers. *Am Rev Resp Dis*, 143 6:1231-1234, 1991.
5. Valiante D.J., Richards T.B., Kinsley K.B.: Silicosis surveillance in New Jersey: Targeting workplaces using occupational disease and exposure surveillance data. *Am J Ind Med*, 21 4:517-526, 1992.
6. Hankinson J.L., Filios M.S., Kinsley K.B., Petsonk E.L.: Comparing MiniWright and spirometer measurements of peak expiratory flow. *Chest*, 108 2:407-410, 1995.
7. Hankinson J.L., Kinsley K.B., Wagner G.R.: Comparison of spirometric reference values for Caucasian and African American blue-collar workers M. *J Occup Environ Med*, 38 2:137-143, 1996.
8. Hankinson J.L., Odencrantz J.R., Fedan K.B.: Spirometric reference values from a sample of the general U.S. population. *Am J Respir and Crit Care Med*, 159 1:179-187, 1999.
9. Kreiss K., Gomaa A., Kullman G., Fedan K., Simoes E., Enright P.: Clinical bronchiolitis obliterans in workers at a microwave-popcorn plant. *N Engl J Med*, 347 5:330-338, 2002.

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10. Kanwal, R., Kullman G., Piacitelli C., Boylstein R., Sahakian N., Martin S., Fedan K.: Evaluation of Flavorings-Related Lung Disease Risk at Six Microwave Popcorn Plants. *J Occup Environ Med*, 48 2:149-157, 2006.
11. Akpınar-Elci M., Fedan K., Enright P.: FEV6 as a surrogate for FVC in detecting airways obstruction and restriction in workplace investigations. *Eur Respir J*, 27 2:374-377, 2006.
12. Fedan J.S., Dowdy J., Fedan K.B., Hubbs A.F.: Popcorn worker's lung: In vitro exposure to diacetyl, an ingredient in microwave popcorn butter flavoring, increases reactivity to methacholine. *Tox Appl Pharm*, (In Press).

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BIOGRAPHICAL SKETCH

Margaret S. Filios Occupational/Environmental Safety and Health Specialist VI –
Mfilios@cdc.gov – (304) 285-6307

EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as

INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
University of Massachusetts, Amherst	BS	1977	Nursing
Harvard School of Public Health	SM	1990	Physiology/Occ Health

Positions

1977-1983 Staff Nurse/Assistant Head Nurse, New England Medical Center Hospital, Boston, MA
1983-1985 Staff Nurse, Boston City Hospital
1985-1989 Nurse Research Liaison/Staff Nurse, Dialysis Clinics, Inc., Boston MA
1989 Contract nurse, Public Health Service, Div Fed Employees Occupational Health, Boston, MA
1990 Health Services Intern, Digital Equipment Corporation, Shrewsbury, MA
1990- Commissioned Officer, U.S. Public Health Service
1990-1999 Occ/Environmental Safety & Health Specialist, Health Hazard Evaluation & Technical Assistance Program, Division of Respiratory Disease Studies (DRDS),NIOSH, CDC, Morgantown, WV
1999-present Occ/Environmental Safety & Health Specialist VI, Project Officer, State-based Occupational Lung Disease Surveillance, DRDS, NIOSH, CDC, Morgantown, WV
2006-present Acting Branch Chief, Surveillance Branch, DRDS; 6 month detail

Other Experience and Professional Memberships

1988 Member, American Public Health Association
1989 Member, American Association of Occupational Health Nurses
1990 Member, West Virginia Nurses Association
1992-1993 Treasurer, Commissioned Officers Association, West Virginia Chapter
1997-1999 CDC/ATSDR Representative, USPHS Professional Advisory Committee on Nursing
1999 Member, Reserve Officer Association
2000, 2001 Secretary, Commissioned Officers Association, West Virginia Chapter
2002-2004 Reviewer, NIOSH Training Grants Council
2002-2005 Division Representative, NIOSH Commission Corps Committee
2003 Member, NIOSH Surveillance Coordination Group, Extramural Funding Committee

Honors

1991 US Public Health Service (USPHS) Achievement Medal
18. USPHS Commendation Medal
19. USPHS Outstanding Unit Citation
20. USPHS Bicentennial Unit Commendation
2003 USPHS Commendation Medal

Index of Biosketches

Selected peer-reviewed publications (in chronological order).

1. Filios MS, Travers PH, Summers V. Quality Assurance Through Use of a Self-evaluation Tool. *AAOHN J* 1991; 39:20-23.
2. Hankinson JL, Filios MS, Kinsley KB, Petsonk EL. Comparing MiniWright and Spirometer Measurements of Peak Expiratory Flow. *Chest* 1995;108:407-410.
3. Henneberger PK, Derk SJ, Davis L, Tumpowsky C, Reilly MJ, Rosenman KD, Schill DP, Valiante D, Flattery J, Harrison R, Reinisch F, Filios MS, Tift B. Work-Related Reactive Airways Dysfunction Syndrome: Cases from Surveillance in Selected US States. *J Occup Environ Med* 2003;45:360-368.
4. Rosenman KD, Reilly MJ, Schill DP, Valiante D, Flattery J, Harrison R, Reinisch F, Pechter E, Davis L, Tumpowsky C, Filios MS. Cleaning Products and Work-Related Asthma. *J Occup Environ Med* 2003; 45:556-563.
5. Goe SK, Henneberger PK, Reilly MJ, Rosenman KD, Schill DP, Valiante D, Flattery J, Harrison R, Reinisch F, Tumpowsky C, Filios MS. A descriptive study of work aggravated asthma. *Occup Environ Med* 2004; 61:512-517.
6. Pechter E, Davis LK, Tumpowsky C, Flattery J, Harrison R, Reinisch F, Reilly MJ, Rosenman KD, Schill DP, Valiante D, Filios M. Work-Related Asthma Among Health Care Workers: Surveillance Data From California, Massachusetts, Michigan, and New Jersey, 1993-1997. *Am J Ind Med* 2005; 47:265-275.
7. Flattery J, Davis L, Rosenman KD, Harrison R, Lyon-Callo S, Filios M. The Proportion of Self-reported Asthma Associated with Work in Three States—California, Massachusetts, and Michigan, 2001. *J Asthma; J Asthma April, 2006; 43(3):213-218.*

BIOGRAPHICAL SKETCH

03 -31-2006

Denise Marie Gaughan, M.P.H.	Research Epidemiologist Tel: (304) 285 6262 E-mail: Dug5@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Delaware, Newark, DE	B.A.	1990	English
Yale University, New Haven, CT	M.P.H.	1999	Epidemiology

Positions

- 1999-2003 Epidemiologist II , Harvard School of Public Health , Harvard University, Center for Biostatistics in AIDS Research; Boston, MA
- 2003-Date Research Epidemiologist , Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Respiratory Diseases, Field Studies Branch; Morgantown, WV
- 2003-Date Adjunct Assistant Professor , West Virginia University, Department of Community Medicine; Morgantown, WV

Peer Reviewed Publications

1. Schroeder S.A., Gaughan D.M., Swift M.: Protection against bronchial asthma by CFTR Δ F508 mutation: a heterozygote advantage in cystic fibrosis. *Nat Med*, 1 7;703-705, 1995. Peer reviewed.
2. Gaughan D.M., Mofenson L.M., Hughes M.D., Seage G.R., Ciupak G.L., Oleske J.M. for the PACTG 219 Team.: Osteonecrosis of the hip (Legg-Calvé-Perthes Disease) in HIV-infected children. *Pediatr*, <http://www.pediatrics.org/cgi/content/full/109/5/e74>, 2002. Peer reviewed.
3. Gaughan D.M., Hughes M.D., Seage G.R., Selwyn P.A., Carey V.J., Gortmaker S.L., Oleske J.M. for the PACTG 219 Team.: The Prevalence of pain in pediatric human immunodeficiency virus/acquired immunodeficiency syndrome as reported by participants in the pediatric late outcomes study (PACTG 219). *Pediatr*, 109 6;1144-1152, 2002. Peer reviewed.
4. Gaughan D.M., Hughes M.D., Malee K., Gore C.A., Oleske J.M., Nachman S. for the PACTG 219C Team.: Psychiatric hospitalizations among children and youths with HIV infection. *Pediatr*, <http://www.pediatrics.org/cgi/content/full/113/6/e544>, 2004. Peer reviewed.
5. Gaughan D.M., Cox-Ganser J.M., Enright P.L., Jensen K.R., Wagner G.R., Radtke T.M., Kreiss K.: Acute respiratory effects of smoke exposure in wildland firefighters. Abstract# 420, 2005 ATS International Conference, San Diego, CA, May 25-27, 2005. Not peer reviewed.

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BIOGRAPHICAL SKETCH

03-30-2006

Charles L. Geraci, Ph.D.	Chief, document Development Branch Tel: (513) 533-8339 E-Mail: Cgeraci@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati	B.S.	1966-70	Chemistry
Michigan State University, East Lansing, MI	Ph.D.	1970-75	Chemistry (Organic)

Positions

1975-1987	Section Chief/Research Chemist, National Institute for Occupational Safety and Health, Cincinnati, OH. Started as Research Chemist - promotion to Section Chief.
1987	Laboratory Director, DataChem Laboratories, Cincinnati, OH.
1990	Regional Manger, Industrial Hygiene, Pacific Environmental Services, Cincinnati, OH
1993	Senior Scientist, R&D Industrial Hygiene, the Procter & Gamble Company, Cincinnati, OH. Promoted to Associate Director, Corporate Health, Safety, and Environment.
2004	Branch Chief, Document development Branch, Education and Information Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Cincinnati, OH

Other Experience and Professional Memberships

1980-Date	Diplomate of the American Academy of Industrial Hygiene
1980-Date	Certified Industrial Hygienist, American Board of Industrial Hygiene
1987-1993	Director, American Board of Industrial Hygiene
1999-Date	Fellow of the American Industrial Hygiene Association
Date	Member, American Chemical Society
Date	Member, American Industrial Hygiene Association

Peer Reviewed Publications

1. Geraci, C.L.: Operating Room Pollution: Governmental Perspectives and Guidelines. Anesth Analg 56:775-777, 1977.
2. Kim, W.S., Geraci, C.L., and Kupel, R.E.: "Sampling and Analysis of Formaldehyde in the Industrial Atmosphere" in Ion Chromatographic Analysis of Environmental Pollutants: Vol. 2, J.D. Mulik and E. Sawicki, Eds. Ann Arbor Science, Ann Arbor, MI, 1979.
3. Kim, W.S., Geraci, C.L., and Kupel, R.E.: Solid Sorbent Tube Sampling and Ion Chromatographic Analysis of Formaldehyde. Am Ind Hyg Assoc J 41:333-34, 1980.
4. Moseley, C.L., Geraci, C.L., and Burg, J.: Polychlorinated Biphenyl Exposure in Transformer Maintenance Operations. Am Ind Hyg Assoc J 43:170-174, 1982.
5. Levine, S.P., Conlin, K.A., and Geraci, C.L.: Air Monitoring During a Hazardous Waste Remedial Action at a Drum Bulking Unit Process. J of Haz Was - 1(4): 573-580, 1984.
6. Levine, S.P., Puskar, M.A., Geraci, C.L., Grote, A.A., and Bolyard, M.: Fourier Transform Infra-Red Spectroscopy Applied to Hazardous Waste: I Preliminary Test of Material Analysis for Improvement of Personal Protection Strategies. Am Ind Hyg Assoc J 46(4): 192-196, 1985.
7. Levine, S.P., Costello, R.J., Geraci, C.L., Conlin, K.A.: Air Monitoring at the Drum Bulking Process of a Hazardous Waste Remedial Action Site. Am Ind Hyg Assoc J 46(4): 192-196, 1985.
8. Kennedy, E.R., Smith, D.L., and Geraci, C.L.: Field Evaluations of Sampling and Analytical Methods for Formaldehyde. Formaldehyde -Analytical Chemistry and Toxicology V. Turoski, Ed. American Chemical Society, Advances in Chemistry Series No. 210, pp 151-159, 1985.

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9. Puskar, M.A., Levine, S.P., Geraci, C.L., and Lowry, S.P.: The Use of FTIR for Automated Identification of Organic Compounds Frequently Identified on Hazardous Waste Sites. Specialty Instrumentation - Proceedings of the 28th Oak Ridge National Laboratory Conference of Analytical Chemistry, W.S. Lyon, Ed., Lewis Publishers, Inc. Chelsea, MI, 1986.

Book Chapters, Invited Reviews and Special Reports

1. Geraci, C.L.: The Role of Government: Chapter III in Anesthetic Exposure in the Workplace. E.N. Cohen, Ed. PSG Publishing, Littleton, MA. 1980.
2. Geraci, C.L., Baron, P.A., Carter, J.W., and Smith, C.D.: Testing of Hair Dryers for Asbestos Emissions. Report to the U.S. Consumer Products Safety Commission. Interagency Agreement 79-29, September 1979.
3. Criteria for Recommended Standard - Occupational Exposure to Waste Anesthetic Gases and Vapors. HEW Publication No. (NIOSH) 77-140. U.S. DHEW, National Institute for Occupational Safety and Health, Cincinnati, Ohio. 1977.

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BIOGRAPHICAL SKETCH

07-12-2006

Stephen J. Gilbert, M.S.	Statistician Tel: (513) 533-8271 E-Mail: SGilbert@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Miami University, Oxford OH	B.S.	1986-90	Mathematics & Statistics
Miami University, Oxford OH	M.S.	1991-93	Statistics
University of North Carolina at Chapel Hill, Chapel Hill NC	All but dissertation for Dr.P.H.	2000-present	Biostatistics

Positions

1993-present Statistician, Risk Evaluation Branch, Education and Information Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Cincinnati OH

Honors

2000 NIOSH Long-Term Training Award

Other Experience and Professional Memberships

1993-present Member of the American Statistical Association (ASA)

2004-07 Secretary/Treasurer, Vice President and President of the Cincinnati Chapter of the ASA, Cincinnati OH

1995-97 Vice President and President of the Cincinnati Chapter of the ASA, Cincinnati OH

Peer Reviewed Publications

1. Prince-MM; Gilbert-SJ; Smith-RJ; Stayner-LT. An Examination of Longitudinal Hearing Conservation Databases for Evidence of Noise-Induced Hearing Loss (NIHL). NIOSH 1995:12-16.
2. Prince-MM; Stayner-LT; Smith-RJ; Gilbert-SJ. A re-examination of risk estimates from the NIOSH occupational noise and hearing survey (ONHS). *J Acoust Soc Am* 1997 Feb; 101(2):950-963.
3. Stayner-L; Smith-R; Bailer-J; Gilbert-S; Steenland-K; Dement-J; Brown-D; Lemen-R. Exposure-Response Analysis of Risk of Respiratory Disease Associated with Occupational Exposure to Chrysotile Asbestos. *Occup Environ Med* 1997 Sep;54(9):646-652.
4. Prince-MM; Stayner-LT; Smith-RJ; Gilbert-SJ. Response to "comments on 'a re-examination of risk estimates from the NIOSH occupational noise and hearing survey'". *J Acoust Soc Am* 1998 May; 103(5)(P1):950-963.
5. Bailer-JA; Stayner-LT; Stout-NA; Reed-LD; Gilbert-SJ. Trends in rates of occupational fatal injuries in the United States (1983-92). *Occup Environ Med* 1998 Jul; 55(7):485-489.
6. Gilbert-SJ; Bailer-AJ; Stayner-LT. Years of potential life lost due to occupational fatal injury in the United States. *Hum Ecol Risk Assess* 1998 Dec; 4(6):1321-1335.
7. Stayner-L; Smith-RJ; Gilbert-S; Bailer-AJ. Epidemiologic approaches to risk assessment. *Inhal Toxicol* 1999 Jun-Jul; 11(6-7):593-601.
8. Stayner-L; Bailer-AJ; Smith-R; Gilbert-S; Rice-F; Kuempel-E. Sources of uncertainty in dose-response modeling of epidemiological data for cancer risk assessment. *Ann NY Acad Sci* 1999 Dec; 895(1):212-222.
9. Stayner-LT; Dankovic-DA; Smith-RJ; Gilbert-SJ; Bailer-AJ. Human cancer risk and exposure to 1,3-butadiene - a tale of mice and men. *Scand J Work, Environ & Health* 2000 Aug; 26(4):322-330.

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10. Rice-FL; Park-R; Stayner-L; Smith-R; Gilbert-S; Checkoway-H. Crystalline silica exposure and lung cancer mortality in diatomaceous earth industry workers: a quantitative risk assessment. *Occup Environ Med* 2001 Jan; 58(1):38-45.
11. Park-R; Rice-F; Stayner-L; Smith-R; Gilbert-S; Checkoway-H. Exposure to Crystalline Silica, Silicosis, and Lung Disease Other Than Cancer in Diatomaceous Earth Industry Workers: A Quantitative Risk Assessment. *Occup Environ Med* 2002 Jan 59(1):36-43.
12. Park-RM; Bailer-AJ; Stayner-LT; Halperin-W; Gilbert-SJ. An alternate characterization of hazard in occupational epidemiology: years of life lost per years worked. *Am J Ind Med* 2002 Jun 42(1):1-10.
13. Prince-MM; Gilbert-SJ; Smith-RJ; Stayner-LT. Evaluation of the risk of noise-induced hearing loss among unscreened male industrial workers. *J Acoust Soc Am* 2003 Feb; 113(2):871-880
14. Kuempel-ED; Stayner-LT; Dement-JD; Gilbert-SJ; Hein-MJ. Fiber size-specific exposure estimates and updated mortality analysis of chrysotile asbestos textile workers. *Toxicologist* 2006 Mar; 90(1):71.

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BIOGRAPHICAL SKETCH

03-31-2006

Mark F. Greskevitch		Industrial Hygienist Tel: (304) 285 6305 E-mail: MGreskevitch@cdc.gov	
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University	B.S.	1978-1982	Engineering of Mines
West Liberty State College		Spring 1983	MBA undergraduate courses
West Virginia University		1990-1993	OHS Engineering MS courses

Positions

- 1983-1989 Mining Industrial Hygienist, Environmental Investigations Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
- 1989-1999 Engineer (Occupational Safety/Health), Environmental Investigations Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
- 1999-Date Engineer (Occupational Safety/Health), Surveillance Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

USPHS:

- 1985 Hazardous Duty Award
- 1987 Unit Commendation
- 1990 Unit Commendation
- 1997 Outstanding Unit Citation
- 1997 Commendation Medal
- 1998 Bicentennial Unit Commendation
- 2005 Commissioned Corps Training Ribbon

Other:

- 1989 CDC Certificate of Appreciation
- 1996 NIOSH Board of Scientific Counselors - Honorable Mention for Abrasive Blasting Project
- 1996 Finalist Nomination for the Alice Hamilton Award - Education Materials Category
- 1997 Certificate of Achievement for Workshop Coordination at the 1997 National Conference to Eliminate Silicosis
- 1997 Finalist Nomination for the Alice Hamilton Award - Education Materials Category
- 1998 Finalist Nomination for the Alice Hamilton Award - Education Materials Category
- 2002 NIOSH Alice Hamilton Award Honorable Mention - Biological Science Category
- 2002 CDC Director Recognition for Extraordinary Efforts in Response to Public Health Emergencies after September 11, 2001
- 2002 CDC Safety Award
- 2004 Finalist Nomination for the Alice Hamilton Award - Education Materials Category

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Other Experience and Professional Memberships

- 1980-1985 American Institute of Mining Engineers (AIME) Center to Protect Workers' Rights (CPWR) Task-Based Exposure
- 1995-1999 Steel Structures Painting Council (SSPC)
- 1995-Date Assessment Model (T-BEAM) member
- 2004-Date Commissioned Officers Association

Peer Reviewed Publications

1. Greskevitch, M., A.R. Turk, A. Dieffenbach, J.M. Roman, D.W. Groce, F.J. Hearl: Quartz analyses of the bulk dust samples collected by the National Occupational Health Survey of Mining (NOHSM). *Appl Occup Environ Hyg*, 7 8:527-531, 1992.
2. D. Groce, Z. Zhuang, M. Greskevitch: National occupational health survey of mining: Magnitude of potential exposures to musculoskeletal overload conditions. Annual International Industrial Ergonomics and Safety Conference, June, 1995.
3. Greskevitch, M., J. Parker, L. Stettler.: What does NIOSH think about all of this? A federal research agency's perspective & strategies to prevent silicosis. Proceedings from the Steel Structures Painting Council (SSPC) 1995 International Conference & Exhibition. pp 221-224, November, 1995.
4. Greskevitch, M.: What does plan to do about all of this? A federal research agency's plans to study several substitute abrasives. Proceedings from the Steel Structures Painting Council (SSPC) 1995 International Conference & Exhibition. pp. 225-226, November, 1995.
5. Greskevitch, M., S. Bajpayee, J. Hale, D. Groce, F. Hearl.: Results from the national occupational health survey of mining (NOHSM). *Appl Occup Environ Hyg*, 12 12: 924-931, 1997.
6. Castranova V., Vallyathan, V., Greskevitch, M., Jones, W.: Cytotoxicity of abrasive blasting substitutes. Seventh Joint Science Symposium (NIOSH, FIOH, NIWL) Proceedings, October, 1998.
7. Vallyathan, V.A., Blake, T., Leonard, S.E., Greskevitch, M.F., Jones, W.G., Pack, D.L., Schwegler-Berry, D.E., Miller, W.E., Castranova, V.I.: In vitro toxicity of silica substitute used for abrasive blasting. *Am J Ind Med Suppl*, 1:158-160, 1999.
8. D.W. Porter, N.S. Minhas, L.A. Battelli, T. Goldsmith, A. Dotson, W. Jones, M. Greskevitch, J. Ma, A.F. Hubbs: Persistent pulmonary inflammation after intratracheal instillation of abrasive blasting agents. *Toxicol Sci Suppl*, 48:51, 1999.
9. D.W. Porter, N.S. Minhas, L.A. Battelli, T. Goldsmith, A. Dotson, W. Jones, M. Greskevitch, J. Ma, A.F. Hubbs: Pulmonary inflammation after intratracheal instillation of abrasive blasting agents. *Toxicol Sci Suppl - The Toxicologist* 60:190, 2001.
10. Porter, D.W., Hubbs, A.F., Robinson, V.A., Battelli, L.A., Greskevitch, M.F., Barger, M., Landsittel, D., Jones, W., Castranova, V.: Comparative pulmonary toxicity of blasting sand and five substitute abrasive blasting agents. *J Toxicol Environ Health*, 65:1121-1140, 2002.
11. Doney B., Greskevitch M., Middendorf P., Groce, D.: Which substances prompt respirator use? *J Int Soc Respir Prot (JISRP)*, 20 3/4:125-134, 2003.
12. Doney B., Greskevitch M., Hoffman W., Groce, D.: Usefulness of respirator manufacturer user's instructions and NIOSH approval labels. *J Int Soc Respir Protect (JISRP)*, 21 1/2:31-39, 2004.
13. Hubbs A., Greskevitch M., Kuemple E., Suarez F., Toraason M.: Abrasive blasting agents: designing studies to evaluate relative risk. Proceedings for the 2004 Toxicology and Risk Assessment Conference. *J Toxicol Environ Health, Part A*, 68:999-1016, 2005.
14. Campbell D., Doney B., Groce D., Greskevitch M., Syamlal G., Coffey C., Bang, K.M.: Respirator fit testing practices in the U.S. *J Int Soc Respir Prot (JISRP)*, 22:11-16, 2005.
15. Doney B., Greskevitch M., Groce D., Campbell, D., Hoffman W., Middendorf P., Syamlal, G., Bang, K.: A survey of private-sector respirator use in the United States: An Overview of Findings. *J Occup Environ Health (JOEH)*, 2:267-276, 2005.

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16. Greskevitch, M., Doney, B., Groce, D.: A survey of respirator use in the mining industry. Society of Mining Engineering (SME) Annual Transactions Volume, 2005.

Book Reviews and Invited Reviews

1. Greskevitch, M.: NIOSH to study several substitute abrasives. Compliance: Environmental, Health and Safety News from Steel Structures Painting Council (SSPC). pp. 2, 9 No. 96/1.
2. A.F. Hubbs, N.S. Minhas, W. Jones, M. Greskevitch, L.A. Battelli, D.W. Porter, et al.: Comparative pulmonary toxicity of six abrasive blasting agents. *Toxicol Sci*, 61 1:135-143, 2001.
3. Doney B., Greskevitch M., et al: Respirator usage in private sector firms, 2001. Bureau of Labor Statistics/National Institute for Occupational Safety and Health (BLS/NIOSH), September 2003.

NIOSH Numbered Documents

1. Greskevitch, M., S. Bajpayee, J. Hale, D. Groce, F. Hearl.: Results from the national occupational health survey of mining (NOHSM), NIOSH technical report. DHHS (NIOSH) Publication No. 96-136. (September, 1996).
2. Greskevitch M.: 2002 Work-related lung disease (WORLD) surveillance report. NIOSH/CDC/DHHS, Cincinnati, OH, DHHS/NIOSH Pub. No. 2003-111, May 2003.

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BIOGRAPHICAL SKETCH

6-08-2006

Michael G. Gressel, Ph.D., CSP	Chemical and Industrial Engineer/Team Leader Tel: (513)841-4378 E-mail: MGressel@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	B.S.	1979-1985	Chemical Engineering
University of Cincinnati, Cincinnati, OH	M.S.	1988-1996	Industrial Engineering
University of Cincinnati, Cincinnati, OH	Ph.D.	1996-2001	Industrial Engineering

Positions

- 1985-present Occupational Health and Safety Engineer, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering/Engineering Control Technology Branch, and Division of Applied Research and Technology/Engineering and Physical Hazards Branch.
- 2004-present Team Leader, National Institute for Occupational Safety and Health, Division of Applied Research and Technology/Engineering and Physical Hazards Branch.
- 2005-present Manufacturing Sector Coordinator, National Institute for Occupational Safety and Health.

Honors

- 2005 U.S. Public Health Service Outstanding Unit Citation
- 2004 Alice Hamilton Science Award for Occupational Safety and Health
- 2003 USPHS Engineering Literary Award, Engineering Applications Category
- 2003 U.S. Public Health Service Achievement Medal
- 2002 U.S. Public Health Service Outstanding Unit Citation
- 2002 U.S. Public Health Service Crisis Response Award
- 2001 AIHA Engineering Committee, Best Paper Award
- 1997 U.S. Public Health Service Commendation Medal
- 1997 Award for Outstanding Scholarship in Facility Engineering, Association for Facilities Engineering
- 1994 Honorable Mention, Alice Hamilton Science Award for Occupational Safety and Health
- 1993 Best Poster Award, American Industrial Hygiene Conference and Exposition
- 1992 Best Paper Award, Michigan Industrial Hygiene Society
- 1990 U.S. Public Health Service Citation
- 1989 John J. Bloomfield Award, American Conference of Governmental Industrial Hygienists
- 1988 U.S. Public Health Service Achievement Medal
- 1988 Honorable Mention, Alice Hamilton Science Award for Occupational Safety and Health

Other experience and professional memberships

- U.S. PHS Engineering Professional Advisory Committee (EPAC) Alternate Member, 2003 to 2006.
- U.S. Public Health Service Engineering Professional Advisory Committee Emergency Response Subcommittee Member, 2004 to 2006.
- American Industrial Hygiene Conference and Exposition, Poster Session Arranger, 2001
- Course Instructor, "First Professional Occupational Hygiene Certificate Course" National Centre for Occupational Health, Johannesburg, South Africa, 1995
- American Industrial Hygiene Association (AIHA), Engineering Committee, 1988-94; Committee Chair, 1993
- American Conference of Governmental Industrial Hygienist (ACGIH)
- American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)
- Commissioned Officers Association of the USPHS (COA)
- Reserved Officers Association (ROA)

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Peer-reviewed publications (most recent listed)

1. McKernan, J.L.; Taylor, L.; McCammon, J.B.; Hartle, R.W.; Gressel, M.G. Cross-contamination Issues during a Biological Emergency Response Effort: Lessons Learned. *International Journal of Emergency Management*. 1(4):363-373. 2003.
2. Mead, K.R.; Gressel, M.G. Guidance for Protecting Building Environments from Airborne Chemical, Biological, or Radiological Attacks. *Applied Occupational and Environmental Hygiene*. 17(10):649-658. 2002.
3. Boundy, M.; Leith, D.; Hands, D.; Gressel, M.G.; and Burroughs, G.E. Performance of Industrial Mist Collectors Over Time. *Applied Occupational and Environmental Hygiene*. 15(12):982-935. 2000.
4. Crouch, K.; and Gressel, M.G. The Control of Press Solvent Vapors in a Small Lithographic Printing Establishment. *Applied Occupational and Environmental Hygiene*. 14(5):329-338. 1999.
5. Gressel, M.G.: An Evaluation of a Local Exhaust Ventilation Control System for a Foundry Casting-Cleaning Operation. *American Industrial Hygiene Association Journal*. 58(5): 354-358. 1997.
6. Gressel, M.G. An Engineer's Perspective of the Intervention Research Workshop. *American Journal of Industrial Medicine* 29:382-383, 1996.
7. Gressel, M.G.; Kovein, R.J.; and Hentz, P.A. Potential Problems Associated with the Rustrak7 Ranger Data Logger's Data Storage Technique. *American Industrial Hygiene Association Journal* 55(10):970-976, October 1994.
8. Spencer, A.B.; and Gressel, M.G. A Hazard and Operability Study of Anhydrous Ammonia Application in Agriculture. *American Industrial Hygiene Association Journal* 54(11):671-677, November 1993.
9. Cooper, T.C.; Gressel, M.G.; Froehlich, P.A.; Caplan, P.E.; Mickelsen, R.L.; Valiante, D.; and Bost, P. Successful Reduction of Silica Exposures at a Sanitary Ware Pottery. *American Industrial Hygiene Association Journal* 54(10):600-606, October 1993.
10. Edmonds, M.A.; Gressel, M.G.; O'Brien, D.M.; and Clark, N.J. Reducing Exposures During the Pouring Operations of a Brass Foundry. *American Industrial Hygiene Association Journal* 54(5):260-266, May 1993.
11. Gressel, M.G.; Heitbrink, W.A.; and Jensen, P.A. Video Exposure Monitoring -- A Means of Studying Sources of Occupational Air Contaminant Exposure, Part 1 -- Video Exposure Monitoring Techniques. *Applied Occupational and Environmental Hygiene* 8(4):334-338, April 1993.
12. Heitbrink, W.A.; Gressel, M.G.; Copper, T.C.; Fischbach, T.; O'Brien, D.M.; and Jensen, P.A. Video Exposure Monitoring -- A Means of Studying Sources of Occupational Air Contaminant Exposure, Part 2 -- Data Interpretation. *Applied Occupational and Environmental Hygiene* 8(4):339-343, April 1993.
13. Gressel, M.G.; and Hughes, R.T. Effective Local Exhaust Ventilation for Controlling Formaldehyde Exposures During Embalming. *Applied Occupational and Environmental Hygiene* 7(12):840-845, December 1992.
14. McKelvey, T.; Rothchild, M.; Gideon, J.; Beasley, A.; and Gressel, M. Process Hazards Review Applied to the Use of Anhydrous Ammonia in Agriculture: an Example of Chemical Process Safety for Small Business. *Journal of Loss Prevention in the Process Industries* 5(5):297-303.
15. 8 Articles from May 1987 to April 1992.

Patents

Gressel MG [1994]: *Ventilated workstation with turntable*, U.S. Pat. 5,569,074.

Technical Publication

1. Earnest, G.S.; Gressel, M.G.; Mickelsen, R.L.; Moyer, E.S.; Reed, L.D.; Karwacki, C.J.; Morrison, R.W.; Tevault, D.E.; Delp, W.; Persily, A.K. Guidance for Filtration and Air-Cleaning Systems to Protect Building Environments from Airborne Chemical, Biological, or Radiological Attacks. DHHS (NIOSH) Pub. No. 2003-136. Cincinnati, OH, 2003.

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2. Mead, K.R.; Gressel, M.G. Guidance for Protecting Building Environments from Airborne Chemical, Biological, or Radiological Attacks. DHHS (NIOSH) Pub. No. 2002-139. Cincinnati, OH, 2002.
3. Rice, F.L.; Key-Schwartz, R.; Bartley, D.; Baron, P.; Schlecht, P.; Gressel, M.G.; Echt, A. NIOSH Hazard Review: Health Effects of Occupational Exposure to Respirable Crystalline Silica. DHHS (NIOSH) Pub. No. 2002-129, Cincinnati, OH, 2002.
4. Gressel, M.G.; Heitbrink, W.A., ed. Analyzing Workplace Exposures Using Direct Reading Instruments and Video Exposure Monitoring Techniques, DHHS(NIOSH) Publication No. 92-104, Cincinnati, OH. 1992.

Other publications

Author / Co-author of 13 book/technical manual chapters and 10 proceedings papers (1985-present)

Presentations

65 presentations at conferences, meetings and symposia (1985-present)

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BIOGRAPHICAL SKETCH

06-01-2006

Ardith A. Grote		Chemist Tel: (513) 684-4308 E-mail: agrote@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Edgecliff College, Magna cum laude, Cincinnati, OH	B.A.	1970	Chemistry

Positions

1973 – Present Chemist, Chemical and Exposure Monitoring Branch, Division of Applied Research and Technology, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Department of Health and Human Services, Cincinnati, OH (formally Measurements Development Section, Measurements Research Support Branch, Division of Physical Sciences and Engineering)

1970 – 1973 Chemist, NIOSH, DPSE, MRSB, MDS

1968 – 1970 Tabulator, Burke Marketing Research, Cincinnati, OH

Honors

Numerous DHHS Quality Increase, Outstanding Work Performance Awards and Performance Awards for Superior Work Performances

Other Experience and Professional Memberships

1976-1996 American Society for Mass Spectrometry –
1974-Present American Industrial Hygiene Association -
1974-1996 American Conference of Governmental Industrial Hygienists -
1972-1977 Society for Applied Spectroscopy
Offices held (local section): President: 1976, President-elect: 1975,
Secretary/Treasurer: 1974
1971-1976 American Chemical Society

Selected peer-reviewed publications

1. R. J. Boylstein, C. Piacitelli, A. Grote, R. Kanwal, G. Kullman, and K. Kreiss, Diacetyl Emissions and Airborne dust from Butter Flavorings Used in Microwave Popcorn Production, J. Occ.Env.Health, to be published in 2006.
2. E. H. Page, C. K. Cook, M. A. Hater, C. A. Mueller, A. A. Grote and V. D. Mortimer
Visual and Ocular Changes Associated with Exposure to Two Tertiary Amines
Occup Environ Med [60] (1) pp.69-75 January 2003
3. A. A. Grote and E. R. Kennedy Challenges in Developing Thermal Desorption Methods for Workplace Monitoring J Chromatography , 2002
4. A. A. Grote and E. R. Kennedy Workplace Monitoring for Volatile Organic Compounds Using Thermal Desorption-Gas Chromatography-Mass Spectrometry, J Environ Monit [4] (5) pp.679-684 September 2002

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5. A. F. Hubbs, L. A. Battelli, W. T. Goldsmith, D. W. Porter, D. Frazer, S. Friend, D. Schwegler-Berry, R. R. Mercer, J. S. Reynolds, A. A. Grote, V. Castranova, G. Kullman, J. S. Fedan, J. Dowdy and W. G. Jones, Necrosis of Nasal and Airway Epithelium in Rats Inhaling Vapors of Artificial Butter Flavoring Toxicol Appl Pharm [185] (2) pp.128-135 PubDate: December 2002
6. Kennedy, E.R., O'Connor, P.F., Grote, A.A. "Application of Multidimensional Gas Chromatography/Mass Spectrometry (MDGC/MS) to the Determination of Glycols in Air," Am. Ind. Hyg. Assoc. J
7. Levine, S.P., Puskar, M.A., Geraci, C.L., Grote, A.A., and Bolyard, M. "Fourier Transform Infra-Red Spectroscopy Applied to Hazardous Waste: I - Preliminary Test of Material Analysis for Improvement of Personal Protection Strategies," Am. Ind. Hyg. Assoc. J. 46:181-186, 1985.
8. Grote, A.A. and Kupel, R.E.. "Sampling and Analysis of 2,6 Di-t-Butyl-p-Cresol (DBPC)," Am. Ind. Hyg. Assoc. J. 39:78-82, 1978.
9. Grote, A.A., Kim, W.S., and Kupel, R.E. "Establishing a Protocol from Laboratory Studies to be Used in Field Sampling Operations," Am. Ind Hyg. Assoc. J. 39:880-884, 1978.

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BIOGRAPHICAL SKETCH

03 - 31 -2006

Janet Marie Hale		Supervisory Program Analyst Tel: (304) 285 6264 E-mail: JHale@cdc.gov	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Indiana University of Pennsylvania	B.S.	1979	Computer Science

Positions

1980-1989 EG&G WASC – Morgantown Operations, Morgantown, WV
 1989-2000 Computer Specialist, NIOSH, Morgantown, WV
 2000-Date Supervisory Program Analyst, NIOSH, Morgantown, WV

Honors

1990 EPMS Excellent for period ending 12/31/1989 – cash award
 1991 Promotion from GS-11 to GS-12
 1991 EPMS Outstanding for period ending 12/31/1990 – cash award
 1992 EPMS Outstanding for period ending 12/31/1991 – QSI
 1993 EPMS Outstanding for period ending 12/31/1992 – cash award
 1993 Special Act/Service Award – superior work performance – cash award
 1994 EPMS Outstanding for period ending 12/31/1993 – QSI
 1994 Special Act/Service Award – on-the-spot – cash award
 1995 EPMS Outstanding for period ending 12/31/1994 – cash award
 1996 EPMS Outstanding for period ending 12/31/1995 – cash award
 1996 Alice Hamilton Science Award for Leadership in Occupational Safety & Health – Group award
 1997 EPMS Outstanding for period ending 12/31/1996 – QSI
 1997 Special Act/Service award – group award – cash award
 1997 Special Act/Service award – on-the-spot – cash award
 1997 Special Act/Service award – on-the-spot – cash award
 1997 Special Act/Service award – group award– cash award
 1998 EPMS Outstanding for period ending 12/31/1997 – QSI
 1998 Special Act/Service award – group award– cash award
 1998 Special Act/Service award – group award– cash award
 1999 EPMS Outstanding for period ending 12/31/1998 – cash award
 1999 Special Act/Service award – on-the-spot – cash award
 1999 NIOSH Y2K Compliance Project – group award
 2000 EPMS Outstanding for period ending 12/31/1999 – cash award
 2001 EPMS Excellent for period ending 12/31/2000 – cash award
 2001 Special Act/Service award – on-the-spot – cash award
 2001 Special Act/Service award – group award – cash award
 2002 Special Act/Service award – time-off award
 2002 Special Act/Service award – group award – cash award
 2002 EPMS Excellent for period ending 12/31/2001 – cash award
 2002 Special Act/Service award – on-the-spot – cash award
 2002 CSC Safety Award
 2003 Special Act/Service award – time-off award
 2003 EPMS Excellent for period ending 12/31/2002 – cash award

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2003	Special Act/Service award – on-the-spot – cash award
2003	2003 CDC and ATSDR Group Honor Award for Program Operations
2004	EPMS Excellent for period ending 12/31/2003 – cash award
2004	Special Act/Service award – on-the-spot – cash award
2005	EPMS Excellent for period ending 12/31/2003 – cash award

Peer Reviewed Publications

1. Hale, J., Groce D., Hearl F.: National occupational health survey of mining query system. *Appl Occup Environ Hyg*, 10 4:274-282, 1995.
2. Greskevitch M., Bajpayee S., Hale J., Groce D.: Results from the national occupational health survey of mining. *Appl Occup Environ Hyg*, 12 12:924-931, 1997.
3. Linch K., Miller W., Althouse R., Groce D., Hale J.: Surveillance of respirable crystalline silica dust using OSHA compliance data (1997-1995). *Am J Ind Med*, 34 6:547-558, 1998.
4. Kuempel E.D., Attfield M.D., Vallyathan V., Lapp N.L., Hale J.M., Smith R.J., Castranova V.: Pulmonary inflammation and crystalline silica in respirable coal mine dust: dose-response. *J Biosci*, 28 1:61-69, 2003.

Book Chapters and Invited Reviews

Althouse R.B., Bank K.M., Castellan R.M., Doney B.C., Filios M., Greskevitch M.F., Heaslip R.A., Linch K.D., Middendorf P.J., Rotunda C.J., Syamlal G., Wood J.M., Wang M.L., Petsonk E.L., Hale J.M., Attfield M.D., Wagner G.R.: DHHS (NIOSH) Number 2003-111, May 2003.

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BIOGRAPHICAL SKETCH

03-31-2006

Paul K. Henneberger, Sc.D., M.P.H.	Research Epidemiologist Tel: (304) 285 6161 E-mail: PHenneberger@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Beloit College, Beloit, WI	B.A.	1974	Biology
Columbia University, New York, NY	M.P.H.	1979	Epidemiology
Harvard School of Public Health, Boston, MA	Sc.D.	1988	Epidemiology and Occupational Health

Positions

1979-1981	Public Health Epidemiologist, Bureau of Preventable Diseases, New York City Department of Health; New York, NY
1981-1983	Staff Epidemiologist, Environmental Sciences Laboratory, Mount Sinai School of Medicine; New York, NY
1988-1989	Postdoctoral fellow, Respiratory Epidemiology Program, Harvard School of Public Health; Boston, MA
1989	Research Scientist, Occupational Epidemiology Program, New Jersey Department of Health; Trenton, NJ
1989-1993	Assistant Professor, Department of Preventive Medicine, State University of New York Health Science Center; Syracuse, NY
1993-Date	Research Epidemiologist, Field Studies Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention; Morgantown, WV
1993-Date	Adjunct Associate Professor, Department of Community Medicine, School of Medicine, West Virginia University; Morgantown, WV

Other Experience and Professional Memberships

Peer reviewer: American Journal of Epidemiology, American Journal of Industrial Medicine, American Journal of Respiratory and Critical Care Medicine, European Respiratory Journal, Occupational and Environmental Medicine, Public Health Reports, Scandinavian Journal of Work, Environment and Health

American Thoracic Society (ATS)

1994-Date	Member
1997-2005	Member of Subcommittee to Revise the 1978 DLD/ATS Respiratory Questionnaire
1998-2002	Member of Subcommittee on the Contribution of Occupation to Airways Disease
2001-2003	Member of Program Committee for the Environmental and Occupational Health (EOH) Assembly
2004-Date	Member of Planning Committee for the EOH Assembly, 2004-present

European Respiratory Society

2000-Date	Member
2004-Date	Member of Program Committee for the Environmental Health Assembly

National Occupational Research Agenda (NORA), NIOSH

1996-2001	Member of Asthma/COPD Team
2001-2005	Leader of Asthma/COPD Team

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Peer Reviewed Publications

1. Henneberger P.K., Metayer C., Layne L.A., Althouse R.: Nonfatal work-related inhalations: surveillance data from hospital emergency departments, 1995-1996. *Am J Ind Med*, 38:140-148, 2000.
2. Henneberger P.K., Cumro D., Deubner D.E., Kent M.S., McCawley M., Kreiss K.: Beryllium sensitization and disease among long-term and short-term workers in a beryllium ceramics plant. *Int Arch Occup Environ Health*, 74:167-176, 2001.
3. Henneberger P.K., Hoffman C.D., Magid D.J., Lyons E.E.: Work-related exacerbation of asthma. *Int J Occup Environ Health*, 8:291-296, 2002.
4. Henneberger P.K., Derk S.J., Davis L., Tumpowsky C., Reilly M.J., Rosenman K.D., Schill D.P., Valiante D., Flattery J., Harrison R., Reinisch F., Filios M.S., Tift B.: Work-related reactive airways dysfunction syndrome cases from surveillance in selected U.S. states. *J Occup Environ Med*, 45:360-368, 2003.
5. Henneberger P.K., Deprez R.D., Asdigian N., Oliver L.C., Derk S., Goe S.K.: Workplace exacerbation of asthma symptoms: findings from a population-based study in Maine. *Arch Environ Health*, 58:781-788, 2003.
6. Goe S.K., Henneberger P.K., Reilly M.J., Rosenman K.D., Schill D.P., Valiante D., Flattery J., Harrison R., Reinisch F., Davis L., Tumpowsky C., Filios M.S., Tift B.: A descriptive study of work-aggravated asthma. *Occup Environ Med*, 61:512-517, 2003.
7. Henneberger P.K., Goe S.K., Miller W.E., Doney B., Groce D.W.: Industries in the United States with airborne beryllium exposure and estimates of the number of current workers potentially exposed. *J Occup Environ Hyg*, 1:648-659, 2004.
8. Hoffman C.D., Henneberger P.K., Olin A-C., Mehta A., Torén K.: Exposure to ozone gases in pulp mills and the onset of rhinitis. *Scand J Work Environ Health*, 30:445-449, 2004.
9. Henneberger P.K.: How "clean" is the cleaning profession? *Eur Resp J*, 26:586-587, 2005.
10. Henneberger P.K., Olin A-C., Andersson E., Hagberg S., Torén K.: The incidence of respiratory symptoms and diseases among pulp mill workers with peak exposures to ozone and other irritant gases. *Chest*, 128:3028-3037, 2005.

BIOGRAPHICAL SKETCH

03-31-2006

Eva Hnizdo, Ph.D.	Senior Staff Fellow Tel: (304) 285 6031 E-mail: EHnizdo@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Agricultural University, Prague, Czechoslovakia	M.Sc.	1968	Animal Sciences
University of Birmingham, Birmingham, U.K.	M.Sc.	1970	Applied genetics
University of the Witwatersrand, Johannesburg, South Africa	Dip. Comp. Sc.	1979	Computer science
University of the Witwatersrand, Johannesburg, South Africa	Ph.D.	1992	Epidemiology

Positions

1970-1974	Scientific Officer (Biometrician), Agricultural Research Council, Edinburgh, Scotland.
1979-1981	Statistical software consultant, University of the Witwatersrand, Johannesburg, South Africa.
1980	Statistical software consultant, Florida State University, Tallahassee, U.S.A.
1982	Senior Research Officer, S.A. Medical Research Council, Johannesburg, South Africa
1982-1992	Senior Statistician/Epidemiologist, Department of Health and Welfare, Johannesburg, S.A.
1992-1995	Staff Fellow, National Institute of Environmental Health Sciences (NIEHS), Research Triangle Park, North Carolina, U.S.A.
1995-1999	Principal Scientist Specialist (Epidemiologist), National Centre for Occupational Health, Johannesburg, South Africa.
1999-Date	Senior Staff Fellow, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV.

Peer Reviewed Publications out of 62

1. Oxman A.D., Muir D.C.F., Shannon H.S., Stock S.R., Hnizdo E., Lange H.J.: Occupational dust exposure and chronic obstructive lung disease: a systematic overview. *Am Rev Resp Dis*, 148:38-48, 1993.
2. Hnizdo E., Murray J., Sluis-Cremer G.K., Thomas R.G.: Correlation between radiological and pathological diagnosis of silicosis - an autopsy population based study. *AJIM*, 24: 427-445, 1993.
3. Hnizdo E.: Risk of silicosis in a cohort of South African gold miners. *Am J Ind Med*, 24:447-457, 1993.
4. Hnizdo E., Sluis-Cremer G.K., Baskind E., Murray J.: Emphysema and airway obstruction in non-smoking South African gold miners with long exposure to silica dust. *Occup Environ Med*, 51: 557-563, 1994.
5. Hnizdo E., Murray J., Klempman S.: Lung cancer in relation to silica dust, silicosis and uranium production in South African gold miners. *Thorax*, 52: 271-275, 1997.
6. Hnizdo E., Rees D.: Surveillance of occupational diseases - where does SORDSA fit in? *Occup Health Saf*, 3:26-31, 1997.
7. Hnizdo E., Murray J.: Risk of pulmonary tuberculosis in relation to silica dust exposure and silicosis in a cohort of South African gold miners. *Environ Occup Med*, 55:496-502, 1998.
8. Hnizdo E., Churchyard G., et al.: Assessment of reliability of lung function screening programs or longitudinal studies. *Am J Respir Crit Care Med*, 160: 2006-2011, 1999.
9. Hnizdo E., Singh, T., Churchyard G.: Chronic pulmonary function impairment caused by initial and recurrent pulmonary tuberculosis following treatment. *Thorax*, 55:32-38, 2000.
10. Hnizdo E., Dowdeswell R., Churchyard G.: Prediction equations for lung function derived from healthy South African gold miners. *Occup Environ Med*, 57:698-705, 2000.

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11. Hnizdo E., Murray J., Davison A.: Correlation between autopsy findings for chronic obstructive airways disease and in life disability in South African gold miners. *Int Arch Occup Environ Health*, 73:235-244, 2000.
12. Hnizdo E., Esterhuizen T., Rees D., Lalloo U.G.: Occupational asthma as identified by the surveillance of work-related and occupational respiratory disease programme in South Africa. *Clin Exp Allergy*, 31:32-39, 2001.
13. Esterhuizen T.M., E. Hnizdo, D. Rees: Occurrence and causes of occupational asthma in South Africa: results from SORDSA's occupational asthma registry, 1997-1999. *SAMJ*, 91 6:509 – 513, 2001.
14. T. Mannetje, Steenland K., Checkoway H., Koskela R.S., Koponen M., Attfield M., Chen J., Hnizdo E., DeKlerk N., Dosemeci M.: Development of quantitative exposure data for a pooled exposure-response analysis of 10 silica cohorts. *Am J Ind Med*, 42 2:73-86, 2002.
15. Hnizdo E., Sullivan P.A., Bang K.M., Wagner G.: Association between chronic obstructive pulmonary disease and employment by industry and occupation in the US population: A study of data from the third National Health and nutrition examination survey. *Am J Epidemiol*, 156 8:738-46, 2002.
16. Hnizdo E., Vallyathan V.: Chronic obstructive pulmonary disease due to occupational silica dust: a review of epidemiologic and pathologic evidence. *Occup Environ Med*, 60:237-243, 2003.
17. Hnizdo E., Sullivan P.A., Bang K.M., Wagner G.: Airflow obstruction associated with work in industry and occupation among three U.S. race/ethnic population groups—a study of NHANES III data. *Am J Ind Med*, 46:126-135, 2004.
18. Glindmeyer H.W., Lefante J.J., Rando R.J., Freyder L., Hnizdo E., Jones R.N.: Spray-painting and chronic airways obstruction. *Am J Ind Med*, 46:104-111, 2004.
19. Hnizdo E., Sylvain D., Lewis D., Pechter E., Kreiss K.: New-onset asthma associated with exposure to 3-amino-5-mercaptop-1,2,4-triazole. *J Occup Environ Med*, 46:1246-1252, 2004.
20. Burgess J.L., Fierro M.A., Lantz R.C., Hysong T.A., Fleming J.E., Gerkin R., Hnizdo E., Conley S.M., Klimecki W.: Longitudinal decline in lung function: evaluation of interleukin-10 genetic polymorphisms in firefighters. *J Occup Environ Med*, 46: 1013-1022, 2004.
21. Ki Moon Bang, Ph. D., M.P.H., Eva Hnizdo, Ph.D., Brent Doney, M.S., C.I.H.: Prevalence of Asthma by Industry among Adult Workers in the United States. *Am J Ind Med*, 47:500-508, 2005.
22. Hnizdo E., Yu L., Freyder L., Attfield M., Lefante J., Glindmeyer H.W.: The precision of longitudinal lung function measurements—monitoring and interpretation. *Occup Environ Med*, 62:695-701, 2005.
23. Chen J-Q., Hnizdo E., Attfield M.D., Chen W., Hearl F.J., Wallace W.E.: Comparison of risk of silicosis in Chinese tin miners, tungsten miners and pottery workers and South African gold miners: an epidemiological study. *Am J Ind Med*, 48:10-15, 2005.
24. Hnizdo E., Sircar K., Glindmeyer H.W., Petsonk E.L.: Longitudinal limits of normal decline in lung function in an individual. *J Occup Environ Med*, (in press).

Book Chapters and Invited Reviews

Hnizdo E., Kennedy S.M., Blanc P.D., Toren K., Bernstein I.L., Chan-Yeung M.: Chronic airway disease due to occupational exposure; in: *Asthma in the Workplace*. Bernstein I.L., Chan-Yeung M. Malo J.L., Bernstein D.I. Ed. 2006.

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BIOGRAPHICAL SKETCH

03-31-2006

Mark D. Hoover, Ph.D.		Senior Research Physical Scientist Tel: (304) 285 6374 E-mail: mhoover1@cdc.gov	
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Carnegie-Mellon University, Pittsburgh, PA	B.S.	1970	Mathematics and English
University of New Mexico, Albuquerque, NM	M.S.	1975	Nuclear Engineering
University of New Mexico, Albuquerque, NM	Ph.D.	1980	Nuclear Engineering

Positions

1970-1974	Russian Translator, U.S. Army Security Agency
1977	Visiting Scientist, Institut fuer Aerobiologie, Graftschaft, West Germany
1977-2000	Aerosol Scientist, Inhalation Toxicology Research Institute/ Lovelace Respiratory Research Institute, Albuquerque, NM
2000-Date	Senior Research Physical Scientist, Division of Respiratory Disease Studies, NIOSH (acting Industrial Hygiene Team Leader, 01/2001 - 09/2002; acting Field Studies Branch Chief, 09/2002 - 03/2003)

Honors

1990	Outstanding Professional Contributions and Leadership Award, College of Engineering, University of New Mexico, Albuquerque, NM.
1998	Dedicated Service and Leadership Award, U.S. Department of Energy Air Monitoring Users Group
2002	U.S. Department of Health and Human Services Secretary's Award for Meritorious Service: World Trade Center and Anthrax Response Team
2004	David Swift Memorial Award

Professional Certifications by Examination

Diplomate, American Board of Health Physics (CHP)
Diplomate, American Board of Industrial Hygiene (CIH)

Peer Reviewed Publications (from a total of more than 130)

1. Hoover M.D., Eidson A.F., Mewhinney J.A., Finch G.L., Greenspan B.J., Cornell C.A.: Generation and characterization of respirable beryllium oxide aerosols for toxicity studies. *Aerosol Sci. Technol J*, 9:83-92 1988.
2. Hoover M.D., Finch G.L., Mewhinney J.A., Eidson AF. Release of aerosols during sawing and milling of beryllium metal and beryllium alloys. *Appl Occup Environ Hyg*, 5:787-791, 1990.
3. Hoover M.D., Casalnuovo S.A., Lipowicz P.J., Yeh H.C., Hanson R.W., Hurd A.J.: A method for producing non-spherical monodisperse particles using integrated circuit fabrication techniques. *J Aerosol Sci*, 21:569-575 1990.
4. Hoover M.D., Finch G.L., Castorina B.T.: Sodium metatungstate as a medium for measuring particle density using isopycnic density gradient ultracentrifugation. *J Aerosol Sci*, 22 2:215-221, 1991.
5. Hoover M.D., Harkema J.R., Muggenburg B.A., Spoo J.W., Gerde P., Staller H.J., Hotchkiss J.A.: A microspray nozzle for local administration of liquids or suspensions to lung airways via bronchoscopy. *J Aerosol Med*, 6 2:67-72, 1993.

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6. Finch G.L., Hoover M.D., Hahn F.F., Nikula K.J., Belinsky S.A., Haley P.J., Griffith W.C.: Animal models of beryllium-induced lung disease. *Environ Health Perspect.* 104 5:973-979, 1996.
7. Hoover M.D., Newton G.J., Guilmette R.A., Howard R.J., Ortiz R.N., Thomas J.M., Trotter S.M., Ansoborlo E.: Characterization of enriched uranium dioxide particles from a uranium handling facility. *Radiat Prot Dosimetry*, 79 1-4:57-62, 1998.
8. Hoover M.D. Newton G.J.: Performance testing of continuous air monitors for alpha-emitting radionuclides. *Radiat Prot Dosimetry*, 79 1-4:499-504, 1998.
9. Hoover M.D., Mewhinney C.J., Newton G.J.: Modular glovebox connector and associated good practices for control of radioactive and chemically toxic materials. *Health Phys*, 76 1:66-72, 1999.
10. Martyny J.W., Hoover M.D., Mroz M.M., Ellis K., Bucher-Bartleson B., Maier L.A., Newman L.S.: Aerosols generated during beryllium machining. *J Occup Environ Med*, 42 1:8-18, 2000.
11. Technical contributors including M.D. Hoover: Supporting Guidance 3, Guide for the Practical Application of the ICRP Human Respiratory Tract Model, Annals of the *ICRP*, 32 1-2, 2002.
12. Stefaniak A.B., Hoover M.D., Dickerson R.M., Peterson E.J., Day G.A., Breysse P.N., Kent M.S., Scripsick R.C.: Surface area of respirable beryllium metal, oxide, and copper alloy aerosols and implications for assessment of exposure risk of chronic beryllium disease. *Am J Ind Hyg*, 64:297-305, 2003.
13. Rao G.V.S., Tinkle S., Weissman D.N., Antonini J.M., Kashon M.L., Salmen R., Battelli L.A., Willard P.A., Hoover M.D., Hubbs A.F.: Efficacy of a technique for exposing the mouse lung to particles aspirated from the pharynx, *J Toxicol Environ Health*, 66 15: 1441-1452, 2003.
14. Cox M., Hoover M.D., Grivaud L., Johnson M., Newton G.J.: Standards for measuring airborne radioactivity, *Health Phys*, 85: 236-241, 2003.
15. Cheng, Y. S., R. A. Guilmette, Y. Zhou, J. Gao, T. LaBone, J. J. Whicker, M. D. Hoover: Characterization of plutonium aerosol collected during an accident, *Health Phys*, 87 6: 596-605, 2004.
16. Stefaniak, A. B., R. A. Guilmette, G. A. Day, M. D. Hoover, P. N. Breysse, R. C. Scripsick: Characterization of phagosomal simulant fluid for study of beryllium aerosol dissolution. *Toxicol In Vitro*, 19 1: 123-134, 2005.
17. Day, G.A., M. D. Hoover, A. B. Stefaniak, R. M. Dickerson, E. J. Peterson, N. A. Esmen, R. C. Scripsick: Bioavailability of beryllium oxide particles: an in vitro study in the murine J774A.1 macrophage cell line model, *Exp Lung Res*, 31 3: 341-360, 2005.

Book Chapters and Invited Reviews

1. Hoover M.D., Carter M.T., Griffith W.C.: In vitro dissolution Studies of ultrafine mixed-matrix metal aerosols; in: *Aerosols*, Elsevier Science Publishing Co., Inc, BYH Liu, DYH Pui, HJ Fissan, Eds. pp.1043-1046, 1984.
2. Hoover M.D., Seiler F.A., Finch G.L., Haley P.J., Eidson A.F., Mewhinney J.A., Bice D.E., Brooks A.L., Jones R.K.: Beryllium toxicity: An update; in: *Space nuclear power systems 1989*, Orbit Book Company, Malabar, FL. EL-Genk MS and Hoover MD, Eds. pp. 285-288, 1992.
3. Mauderly J.L., Cheng Y.S., Johnson N.F., Hoover M.D., Yeh H.C.: Particles inhaled in the occupational setting; in: *Lung-particle interactions*, Marcel Dekker, New York. Gehr, P., J. Hyder, Eds. 2000.
4. Hoover M.D., Newton G.J.: Radioactive aerosols; in: *Aerosol measurement: principles, techniques, and applications*, 2nd Ed., Wiley Interscience, New York. Baron P.A., Willeke K., Eds. 2001.
5. Hoover, M. D., H. Cember: Guidance for respiratory and ventilation protection against airborne weapons of mass destruction, in: *Public protection from nuclear, chemical, and biological terrorism*, Medical Physics Publishing, Madison, WI. A. Brodsky, R. H. Johnson, Jr., R. E. Goans, Eds., 2004.

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BIOGRAPHICAL SKETCH

Jennifer L. Hornsby-Myers, MS, CIH		Acting Deputy Director, Emergency Preparedness and Response OD, NIOSH Tel: (304) 285 5828 E-mail: ezh7@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown, WV	MS	2000	Occupational Health and Occupational Safety Technology and Management
University of Maryland, College Park, MD	BS	1991	

Positions

2004-Present

1997-2004 Research Industrial Hygienist, O-3 (LT in USPHS), NIOSH/HELD/EAB

1996-1997 Physical Science Technician, GS-08, NIOSH/DSR/PTB

1992-1997 Scientist II, Geo-Centers, US Army Biomedical Research & Development Lab, Ft. Detrick

1989-1992 Physical Science Technician, US Army Biomedical Research & Development Lab, Ft. Detrick

1987 - 1989 Physical Science Technician, US Army General Materiel and Petroleum Activity

Honors

2006 USPHS Outstanding Unit Award

2005 USPHS Citation

2005 The Cumming Award, sponsored by the Society of American Military Engineers

2002 Department of Health and Human Services, Secretary's Award for Distinguished Service

2002 National Institute for Occupational Safety & Health Emergency Response Award

2002 Centers for Disease Control and Prevention Service Award

Peer Reviewed Publications

1. Inhalation Anthrax Associated with Dried Animal Hides – Pennsylvania and New York City, 2006. MMWR, March 17, 2006 / Vol. 55 / No. 10
2. Lee, L., Soderholm, S., Flemmer, M., Hornsby-Myers, J. [2005] Field test results of an automated exposure assessment tool, the local positioning system (LPS). J. Environ. Monit., 2005, 7, (7), 736-742.
3. Hornsby-Myers, JL., Wells, R.; Chen, B. [2003] HUD Report: "USE OF THERMAL DESORPTION TO DETERMINE SUCCESS OF REMEDIATION OF HOMES CONTAMINATED WITH MICROBIAL GROWTH,"
4. McCawley M, Martin S, Hornsby-Myers JL, Moyer E [2002]. Determining Lung Exposure to Fine and Ultrafine Particles: Part I: Selection of Design Materials.
5. Hornsby-Myers JL [2001]. Use of Track-etched Polycarbonate Filters in Series to Mimic the Total Human Lung Deposition in the Ultrafine and Fine Particle Range from 0.03 to 0.40 um. Masters Thesis, West Virginia University.
6. Keane MJ, Martin J., Hornsby-Myers JL, Stephens J., Harrison J, Myers J., Ong T., Wallace, W. [2002]. Particle Characterization, Free Radical Generation, and Genotoxicity of Hard Metal and Detonation

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- Coating Dusts. Ann. Occup. Hyg. Vol 46, Supplement 1.
7. Keane MJ, Hornsby-Myers J, Stephens J., Harrison J., Myers JR, Williams, W. [2002]. Characterization of Hard Metal Dusts form Sintering and Detonation Coating Processes and Comparative Hydroxyl Radical Production in vitro. Chemical Research in Toxicology (Submitted).
 8. Buffington CO, Kneiss S, Hornsby-Myers JL, Hoke SH [1998]. Evaluation of tubing losses during field sampling for hydrogen halide gases. Field Anal Chem Technol. 2 (4):231-240.
 9. Eaton JC, Terra JA, Hornsby-Myers JL, Rosencrance AB, Bruggemann EE [1992]. Chemical characterization of an experimental white smoke formed from combustion of ammonium perchlorate, ammonium chloride, and carboxy-terminated polybutadiene. US Army Tech Report 9213 (Revision).
 10. Eaton JC, Terra JA, Hornsby-Myers JL [1990]. Chemical characterization of an experimental white smoke. US Army Tech Report 9213.

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BIOGRAPHICAL SKETCH

03 - 31 - 2006

Judith B. Hudnall	Physical Scientist Tel: (304) 285 5853 E-mail: JHudnall@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University	B.S.	1978	Nature Interpretation

Positions

2001- Present	Physical Scientist- NIOSH Laboratory Research Branch
1994-2001	Physical Scientist- NIOSH Respirator Certification Branch
1988-1993	Physical Science Technician- NIOSH Respirator Certification Branch
1985-1988	Physical Science Technician- NIOSH Human Performance Lab, Laboratory Investigations Branch

Honors

1992	Nominee for the Alice B. Hamilton Award for Occupational Safety and Health Research, and the Joseph Mountin, Centers for Disease Control Poster Presentation Award for outstanding research presentation in a poster format.
1995	Recipient of Al Gore Hammer Award for Reinventing the Government. This was a team award signifying changes to government processes that significantly reduced costs to the government.
2000	Invention Award
2002	Co-inventor of the Flush Seal Respirator. U.S. Patent No. 6,957,653 issued 2005

Peer Reviewed Publications

1. White, M.K., Hodous, T.K., Hudnall, J.: Physiological and subjective responses to working in disposable protective coveralls and respirators commonly used in the asbestos abatement industry. *Am Ind Hyg Assoc J*, 50 6:313-319, 1989.
2. White, M.K., Glenn, S.P., Hudnall, J., Rice, C., Clark, S.: The Effectiveness of ice- and freon- based cooling systems during work in fully encapsulating suits in the heat. *Am Ind Hyg Assoc J*, 52 3:127-135, 1991.
3. Turner, N., Parker, J., Hudnall, J.: The Effect of dry and humid hot air inhalation on expired relative humidity during exercise. *Am Ind Hyg Assoc J*, 53 4:256-260, 1992.
4. Hudnall, J.B., Suruda, A., Campbell, D.L.: Deaths involving air-line respirators connected to inert gas sources. *Am Ind Hyg Assoc J*, 54 1, 1993.
5. Metzler, R.W., Hudnall, J.B.: A new direction for the National Institute for Occupational Safety and Health Respirator Certification Program. *J Int Soc Respir Prot*, 12 1, 1994.

NIOSH Numbered Documents

Hudnall, J.B.: NIOSH Guide to the Selection and use of Particulate Respirators Certified under 42 CFR 84. DHHS(NIOSH) Publication No. 96-101, January, 1996.

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BIOGRAPHICAL SKETCH

Gerald J. Joy, M.S.	Industrial Hygienist Tel: 412-386-4074 E-Mail: GJoy@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown, WV	B.S.	1978	Chemistry
University of Pittsburgh, Pittsburgh, PA	M.S.	1979	Chemistry
University of Pittsburgh, Pittsburgh, PA	M.S.	1982	Hyg., Industrial Hygiene

Positions

01/12/2003-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Other Experience and Professional Memberships

---- American Conference of Governmental Industrial Hygienists
---- American Academy of Industrial Hygiene
1990 Certified Safety Professional No. 9794, Board of Certified Safety Professionals
1988 Certified Industrial Hygienist No. 3912, American Board of Industrial Hygiene

Peer Reviewed Publications

Joy, GJ and Middendorf, P. Trends in Noise Exposure and Hearing Conservation in U.S. Coal Mines. Journal of Occupational and Environmental Hygiene; in press.

BIOGRAPHICAL SKETCH

03-31-2006

Richard S. Kanwal, M.D., M.P.H.	Medical Officer III, DRDS, FSB Tel: (304) 285 5932 Email: RKanwal@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Wesleyan University, Middletown, Connecticut	B.A.	1985	Biology
Albert Einstein College of Medicine, Bronx, New York	M.D.	1989	Medicine
University of Alabama at Birmingham, School of Public Health	M.P.H.	2000	Environmental Health

Positions

1989-1990	Internship, Internal Medicine, University of Alabama at Birmingham
1990-1993	Medical residency, Anesthesiology, University of Alabama at Birmingham
1993-1999	Attending Anesthesiologist, Cooper Green Hospital Birmingham, Alabama
1999-2001	Medical residency, Occupational and Environmental Medicine, University of Alabama at Birmingham
2001-2003	Epidemic Intelligence Service Officer, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, CDC, Morgantown, WV
2003-Date	Medical Officer III, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, CDC, Morgantown, WV

Honors

2000- 2001	Chief resident, Occupational and Environmental Medicine, University of Alabama at Birmingham
2002	Public Health Service Awards, Crisis Response Service Award
2002	Public Health Service Awards, Unit Commendation

Other Experience and Professional Memberships

1990	Licensure, Alabama State Medical License
1994	Board Certification, American Board of Anesthesiology
2004	Board Certification, American Board of Preventive Medicine/Occupational Medicine

Peer Reviewed Publications

1. Kanwal R.: Fixed obstructive lung disease among former workers at a microwave popcorn factory Missouri, 2000-2002. *MMWR*, 51 16:345-347, 2002.
2. Akpınar-Elci M., Kanwal R., Kreiss K.: Bronchiolitis obliterans syndrome in popcorn plant workers. *Am J Respir Crit Care Med*, 165:A526, 2002.
3. Heller M.B., et al.: Laboratory response to anthrax bioterrorism, New York City, 2001. *Emerg Infect Dis*, 8 10, 2002.
4. Kanwal R.: Update: Multistate outbreak of monkeypox --- Illinois, Indiana, Kansas, Missouri, Ohio, and Wisconsin, 2003. *MMWR*, 52 24:561-564, 2003.
5. Kanwal R., Kullman G., Piacitelli C., et al.: Evaluation of flavoring related lung disease risk at six microwave popcorn plants. *JOEM*, 48:149-157, 2006.

Book Chapters and Invited Reviews

Martinez K., Trout D., Kanwal R.: Bioaerosols in industrial settings; in: Encyclopedia of Environmental Microbiology, Bitton G, Ed. John Wiley and Sons, Inc., New York. pp. 416-425, 2002.

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NIOSH Numbered Documents

Kanwal R.: NIOSH *Alert*: Preventing lung disease in workers that use or make flavorings, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Department of Health and Human Services, DHHS (NIOSH) Publication Number 2004-110, 2004.

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BIOGRAPHICAL SKETCH

3-30-2006

Eugene R. Kennedy, Ph.D.	Research Epidemiologist Tel: (304) 285 6114 E-mail: kmb2@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
College of Steubenville, Steubenville, OH	B.A.	1970	Chemistry
University of Cincinnati, Cincinnati, OH	Ph.D.	1975	Physical Organic Chemistry

Positions

1975-1976	Postdoctoral Researcher, Wayne State University, Detroit, Michigan to - Studies on organo-sulfur compounds
1976-1979	Research Chemist - Protective Equipment Section, Engineering and Control Technology Branch, Division of Physical Sciences and Engineering, NIOSH
1979-1990	Research Chemist - Organic Methods Development Section, Methods Research Branch, Division of Physical Sciences and Engineering, NIOSH
1990-2000	Supervisory Research Chemist - Methods Development Section 2, Methods Research Branch, Division of Physical Sciences and Engineering
2000-2002	Supervisory Research Chemist – Acting Chief, Chemical Exposure and Monitoring Branch, Division of Applied Research and Technology
2002-present	Research Physical Science Administrator – Chief, Chemical Exposure and Monitoring Branch, Division of Applied Research and Technology

Honors

2003	NCEH Memo of Recognition for Participation in Chemical Materials Working Group
2002	Secretary=s Award for Distinguished Service
2002	CDC +Honor Award
198-90, 1992, 1996-2004	Cash Performance Awards, National Institute for Occupational Safety and Health
2000	On the spot award for assistance in chromium analysis project, 2000
1992	Group Award for Safety Manual Contributions, National Institute for Occupational Safety and Health, 1992
1983	Certificate of Merit, Greater Cincinnati Federal Executive Board and Federal Business Association
1977	Public Health Service Special Achievement Award, 1977

Other Experience and Professional Memberships

American Chemical Society 1970-present
American Industrial Hygiene Association 1977- present
American Conference of Governmental Industrial Hygienists 1980-1994
Society for Applied Spectroscopy 1986-1989
American Association for Aerosol Research, 1989

Selected peer-reviewed publications

1. "Corrections to the target and critical values for the National Institute for Occupational Safety and Health validation tests," T. Fischbach, E. Kennedy, S. Shulman, K. Busch, P. Eller, R. Song, and L. Doemeny, *Am. Ind. Hyg. Assoc. J.*, 57:452-455, (1996).
2. "Strategies for the simultaneous collection of vapors and aerosols with emphasis on isocyanate sampling," R.P. Streicher, E.R. Kennedy, and C.D. Lorberau, *Analyst 119*, 89-97 (1994).

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3. Summary of the NIOSH Guidelines for Air Sampling and Analytical Method Development and Evaluation. E.R. Kennedy, T.F. Fischbach, R. Song, P.M. Eller, S.A. Shulman, *Analyst* 121, 1163-1169 (1996).
4. Performance-based methods. M.T. Abell, E.R. Kennedy, *Anal. Chem.* 68, 459A, 1996.
5. A computer program to promote understanding of the monitoring method evaluation guidelines used at NIOSH. M.T. Abell, E.R. Kennedy, *Am. Ind. Hyg. Assoc. J.*, 58, 236-241 (1997).
6. Determination of Hexavalent Chromium in Industrial Hygiene Samples Using Ultrasonic Extraction and Flow Injection Analysis. Jin Wang, Kevin Ashley, Charles Neumeister, and Eugene R. Kennedy. *The Analyst* (1997) 122:1307-312.
7. Guidelines Available for Development, Validation of Analytical Methods. *LC/GC*, 16(2):90 (1997).
8. Laboratory Investigation of Mass Stability of Inhalable Samplers and Filters. J.P. Smith, D.L. Bartley, and E.R. Kennedy. Submitted to *Am. Ind. Hyg. Assoc. J.*, 59, 582-585 (1998).
9. Uniformity Test of Bias When the Reference Value Contains Experimental Error. Ruiguang Song, Eugene Kennedy, David Bartley, *Anal. Chem* 73, 310-314 (2001).
10. Exposure Assessment Research at NIOSH - A Key to Improving Workers= Health, E.R. Kennedy. Proceedings of the Australian Institute of Occupational Hygienists Conference, December, 2001, Wollongong, Australia.
11. Workplace Monitoring for Volatile Organic Compounds Using Thermal Desorption-Gas Chromatography-Mass Spectrometry, A.A. Grote, E.R. Kennedy, *J. Environ. Monitoring*, 2002, 4, 679B684.

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BIOGRAPHICAL SKETCH

6-5-2006

Rosa Key-Schwartz, Ph.D.	Research Scientist Tel: (513)841-4355 E-mail: rjk9@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
David Lipscomb University, Nashville, TN	B.A.	1973-1978	Chemistry
Vanderbilt University, Nashville, TN	Ph.D.	1978-1985	Chemistry

Positions

- 1989-present Research Scientist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
Captain, U.S. Public Health Service
- 1987 – 1988 Post-Doctoral Fellow, Department of Chemistry, University of New Mexico, Albuquerque, NM
- 1986 – 1987 Chemist, Controls for Environmental Pollution, Santa Fe, NM

Honors

- 2006, 1997 U.S. Public Health Service Unit Commendation
- 2005 U.S. Public Health Service Outstanding Service Medal
- 2005, 2004 U.S. Public Health Service Crisis Response Award
- 2001, 2002 Morehouse College Award for Dedication to Service
- 1997 U.S. Public Health Service Citation
- 1978-1982 Graduate Select Scholar, Vanderbilt University

Other experience and professional memberships

Member, ASTM International Subcommittee D22.04 on Sampling and Analysis Workplace Atmospheres (2004-)

US Delegate, International Organization for Standardization (ISO), Workplace Air Quality Subcommittee (2003-)

Member, American Chemical Society (1977-); American Conference of Governmental Industrial Hygienists (1997-); American Industrial Hygiene Association (1997-); Society of American Military Engineers (2003); Association of Military Surgeons of the U.S. (2003-)

Trained Liaison Officer for Department of Health and Human Services Secretary's Emergency Response Team (SERT); deployed on 4 missions for field medical support (2004-)

Peer-reviewed publications (most recent listed)

1. Yu LL, JD Fassett, BS MacDonald, TA Butler, DA Ramsey, RJ Key-Schwartz, TC Rains [2005]. "Development of SRMs 295x and 296x, Respirable Crystalline Silica on Filter," *J. ASTM Int.* 2(5), 8 pp.
2. Key-Schwartz, R.J., P.A. Baron, D.A. Bartley, F.L. Rice, P.C. Schlecht [2003]. "Determination of Airborne Crystalline Silica," in NIOSH Manual of Analytical Methods, 4th rev.ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 03-127.
3. Key-Schwartz, R.J., D.M. Ramsey, P.C. Schlecht [2003]. "Silica, Crystalline, by XRD (respirable): Method 7500," in NIOSH Manual of Analytical Methods, 4th rev.ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 03-127

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4. Key-Schwartz, R.J. [2003]. "Silica, Amorphous: Method 7501," in NIOSH Manual of Analytical Methods, 4th rev.ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 03-127.
5. Key-Schwartz, R.J., P.C. Schlecht [2003]. "Silica, Crystalline, by VIS: Method 7601," in NIOSH Manual of Analytical Methods, 4th rev.ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 03-127.
6. Eller, P.E., P.C. Schlecht, R.J. Key-Schwartz [2003]. "Silica, Crystalline, by IR (KBr pellet): Method 7602," in NIOSH Manual of Analytical Methods, 4th rev.ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 03-127.
7. Schlecht, P.C., R.J. Key-Schwartz [2003]. "Quartz in Coal Mine Dust (redeposition): Method 7603," in NIOSH Manual of Analytical Methods, 4th rev.ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 03-127.
8. Rice, F.L., R. Key-Schwartz, D.L. Bartley, P.A. Baron, P.C. Schlecht, M.G. Gressel, A.S. Echt [2002]. NIOSH Hazard Review: Health Effects of Occupational Exposure to Respirable Crystalline Silica. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2002-129.
9. Streicher, R.P., C.M. Reh, R. Key-Schwartz, P.C. Schlecht, M.E. Cassinelli, P.F. O'Connor, "Analytical Instrument Performance Criteria: Selecting Isocyanate Sampling and Analytical Methods," *Applied Occupational and Environmental Hygiene* 17(3), 157 (2002).
10. Rudzinski, W.E., J. Yin, E. England, G. Carlton, R.J. Key-Schwartz, J. Lesage, "A Comparison of Solid Sampler Methods for the Determination of Hexamethylene-Based Isocyanates in Spray-Painting Operations," *American Industrial Hygiene Association Journal* (62), 246 (2001).
11. England, E, R.J. Key-Schwartz, J. Lesage, G. Carlton, R. Streicher, R. Song, "Comparison of Sampling Methods for Monomer and Polyisocyanates of 1,6-Hexamethylene Diisocyanate during Spray Finishing Operations," *Applied Occupational and Environmental Hygiene* (15), 472 (2000).
12. Streicher, R.P., C. M. Reh, R. J. Key-Schwartz, P.C. Schlecht, M.E. Cassinelli, P. F. O'Connor, "Determination of Airborne Isocyanate Exposure," *American Industrial Hygiene Association Journal* (61), 544 (2000).
13. Streicher, R.P., C. M. Reh, R. J. Key-Schwartz, P.C. Schlecht, M.E. Cassinelli, P. F. O'Connor, "Selecting an Isocyanate Sampling and Analytical Method," *Synergist* (11), 26 (2000).
14. Key-Schwartz, R.J., J. Snyder, S. Shulman, R. Streicher, "Comparison of Samplers for MDI in Spray-Foaming Operations," manuscript in review.
15. Eller, P.M., R.J. Key-Schwartz, R. Song, S.L. Edwards, P.C. Schlecht, "Silica Method Modifications for Improved Interlaboratory Precision," American Industrial Hygiene Association Web Site (1999).
16. Eller, P.M., H.A. Feng, R.S. Song, R.J. Key-Schwartz, C.A. Esche, J.H. Groff, "Proficiency Analytical Testing (PAT) Silica Variability, 1990 - 1998," *American Industrial Hygiene Association Journal* (60), 533 (1999).
17. Eller, P.M., R.J. Key-Schwartz, R. Song, S.L. Edwards, P.C. Schlecht, "Silica Method Modifications for Improved Interlaboratory Precision," *Synergist* (10), 23 (1999).
18. Streicher, R.P., C. M. Reh, R. J. Key-Schwartz, P.C. Schlecht, M.E. Cassinelli, P. F. O'Connor, "Determination of Workplace Isocyanate Exposure," chapter K in: NIOSH Manual of Analytical Methods, 4th rev. ed., 2nd supplement, 1999.

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20. Key-Schwartz, R.J. and S.P. Tucker, "An Approach to Sampling and Analysis for Total Isocyanates in Workplace Air," American Industrial Hygiene Association Journal (60), 200 (1999).
21. Rudzinski, W., R. Sutcliffe, B. Dahlquist, R. Key-Schwartz, "Evaluation of Tryptamine in an Impinger and on XAD-2 for the Determination of Hexamethylene-based Isocyanates in Spray-Painting Operations," Analyst (122), 605 (1997).
22. Key-Schwartz, R.J., "Analytical Problems Encountered with NIOSH Method 5521 for Total Isocyanates," American Industrial Hygiene Association Journal (56), 474 (1995).
23. Key-Schwartz, R.J., "Analytical Problems in the Determination of 1,6-Hexamethylene Diisocyanate Using NIOSH Method 5521," Applied Occupational and Environmental Hygiene 7(10), 643 (1992).

Other publications

Author of 2 draft international voluntary consensus standards (ISO, 2004-)

Author / Co-author 1 NIOSH Hazard Review and 6 NIOSH analytical methods (1989-)

Presentations

32 presentations at conferences, meetings and symposia (1980-)

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BIOGRAPHICAL SKETCH

Kreiss, Kathleen		Field Studies Branch Chief, Division of Respiratory Disease Studies – KXK2@cdc.gov – (304) 285-5800	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Radcliffe College	BA	1969	Biology
Harvard Medical School	MD	1975	Medicine
San Francisco General Hospital		1975-1976	Internship
Beth Israel Hospital, Boston		1976-1978	Residency – Internal Medicine
Centers for Disease Control, Atlanta		1979-1981	Residency – Preventive Medicine

Positions

1978-1980	Epidemic Intelligence Service Officer, Center for Environmental Health, Centers for Disease Control, Atlanta
1979-1980	Acting Chief, Special Studies Branch, Chronic Diseases Division, Centers for Disease Control, Atlanta
1980-1982	Staff Epidemiologist, Centers for Disease Control, assigned to Environmental Epidemiology Section, Colorado Department of Health
1982-1996	Director, Occupational and Environmental Medicine Division, Department of Medicine, National Jewish Center for Immunology and Respiratory Medicine, Denver
1982-1996	Professor, (Assistant 1982-1989; Associate 1989-1985; Full 1995-1996) Department of Preventive Medicine and Biometrics, University of Colorado School of Medicine
1992-1996	Residency Director, Occupational and Environmental Medicine Residency/Fellowship, University of Colorado School of Medicine
1996	Senior Biomedical Research Service, Centers for Disease Control and Prevention
1996-present	Branch Chief, Field Studies Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health

Honors

2002	Alice Hamilton Award, Honorable Mention for Kreiss et al. Clinical bronchiolitis obliterans in workers at a microwave-popcorn plant. <i>New England J Med</i> 2002;347:330-338.
2005	Bullard – Sherwood Award for Research 2 Practice, Honorable Mention for beryllium program

PUBLICATIONS: on beryllium (17 peer-reviewed and 6 chapters of 105), and 2003 to present (of 24)

1. Kreiss K, Newman LS, Mroz MM, Campbell PA. Screening blood test identifies subclinical beryllium disease. *J Occup Med* 1989; 31:603-608.
2. Kreiss K, Wasserman SL, Mroz MM, Newman LS. Beryllium disease screening in the ceramics industry: Blood lymphocyte test performance and exposure-disease relations. *J Occup Med* 1993; 35:267-274.
3. Kreiss K, Mroz MM, Zhen B, Martyny JW, Newman LS. The epidemiology of beryllium sensitization and disease in nuclear workers. *Am Rev Respir Dis* 1993; 148:985-991.
4. Kreiss K, Mroz PM, Newman LS, Zhen B. Machining risk of beryllium disease and sensitization with median exposures below 2 µg/m³. *Am J Ind Med* 1996; 30:16-25.
5. Richeldi L, Kreiss K, Mroz MM, Zhen B, Tartoni PL, Saltini C. Interaction of genetic and exposure factors in the prevalence of berylliosis. *Am J Ind Med* 1997; 32:337-340.
6. Kreiss K, Mroz MM, Zhen B, Wiedemann HW, Barna B. Risk of beryllium disease related to work processes at a metal, alloy, and oxide production plant. *Occup and Envir Med* 1997; 54:605-612.
7. Henneberger PK, Cumro D, Deubner D, Kent M, McCawley M, Kreiss K. Beryllium sensitization and disease among long-term and short-term workers in a beryllium ceramics plant. *Int Arch Occup & Environ Health* 2001; 74:167-176.
8. Weston A, Ensey J, Kreiss K, Keshava C, McCanlies E. Racial differences in prevalence of a supratypic HLA-genetic marker immaterial to pre-employment testing for chronic beryllium disease. *Am J Ind Med* 2002; 42:457-465.

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9. McCanlies E, Kreiss K, Weston A. HLA-DPB1 and chronic beryllium disease: a HuGE review. *Am J Epi* 2003; 157:388-398.
10. McCanlies EC, Ensey JS, Schuler C, Kreiss K, Weston A. The association between HLA-DPB1Glu69 and chronic beryllium disease and beryllium sensitization. *Am J Ind Med* 2004; 46:95-103.
11. Schuler CR, Kent MS, Deubner DC, Berakis MT, McCawley M, Henneberger PK, Rossman MD, Kreiss K. Process-related risk of beryllium sensitization and disease in a copper-beryllium alloy facility. *Am J Ind Med* 2005; 47:195-205.
12. Stanton ML, Henneberger PK, Kent MS, Deubner DC, Kreiss K, Schuler CR. Frequency of sensitization and chronic beryllium disease among workers in copper-beryllium distribution centers. *J Occup Environ Med* 2005; 48(2):204-211
13. Day GA, Dufresne A, Stefaniak AB, Schuler CR, Stanton ML, Miller WE, MS Kent MS, Deubner DC, Kreiss K, Hoover MD. Exposure pathway assessment at a copper-beryllium processing facility. *Ann Occup Hyg* 2006 (submitted).
14. Cummings KJ, Deubner DC, Day GA, Henneberger PK, Kitt M, Kent M, Kreiss K, Schuler CR. Enhanced preventive program at a beryllium ceramics plant reduces beryllium sensitization among new workers (submitted).
15. Balmes J, Becklake M, Blanc P, Henneberger P, Kreiss K, Mapp C, Milton D, Schwartz D, Toren K, Viegi G. Occupational contribution to the burden of obstructive airway disease. *Am J Respir Crit Care Med* 2003; 167:787-797.
16. Akpinar-Elci M, Travis WD, Lynch DA, Kreiss K. Bronchiolitis obliterans syndrome in popcorn production plant workers. *Eur Respir J* 2004; 24:298-302.
17. Park J, Schleiff PL, Attfield MD, Cox-Ganser J, Kreiss K. Building-related respiratory symptoms can be predicted with semi-quantitative mold exposure index. *Indoor Air* 2004; 14:425-433.
18. Hnizdo E, Sylvain D, Lewis DM, Pechter E, Kreiss K. New-onset asthma associated with exposure to 3-amino-5-mercapto-1, 2, 4-triazole. *J Occup Environ Med* 2004; 46:1246-1252.
19. Daroowalla F, Wang ML, Piacitelli C, Attfield MD, Kreiss K. Flock workers' exposures and respiratory symptoms in five plants. *Am J Ind Med* 2005; 47(2):144-152.
20. Cox-Ganser JM, White SK, Jones R, Hilsbos K, Storey E, Enright PL, Rao CY, Kreiss K. Respiratory morbidity in office workers in a water-damaged building. *Environ Health Perspect* 2005; 113(4):485-490.
21. Fink JN, Ortega HG, Reynolds HY, Cormier YF, Fan LL, Franks TJ, Kreiss K, Kunkel S, Lynch D, Quirce S, Rose C, Schleimer R, Schuyler MR, Selman M, Trout D, Yoshizawa Y. Needs and opportunities for research in hypersensitivity pneumonitis. Summary of workshop sponsored by National Heart, Lung, and Blood Institute and the Office of Rare Diseases. *Am J Resp Crit Care Med* 2005; 171(7):792-798.
22. Akpinar-Elci M, Stemple KJ, Enright PL, Fahy JV, Bledsoe TA, Weissman DN, Kreiss K. Induced sputum evaluation in microwave popcorn production workers. *Chest* 2005; 128(2):991-997.
23. Park J, Cox-Ganser J, Kreiss K, Rao C. Fungal and endotoxin measurements in dust associated with respiratory symptoms in a water-damaged office building. *Indoor Air* (in press).

Research Support:

Beryllium disease surveillance/research; 1998-2006; program oversight (initially PI).

Longitudinal surveillance/Beryllium disease prevention; \$102,900/yr; 2002-2006; program oversight.

Work-related asthma in offices and schools; \$250,000/yr; 2005-2010; program director over two projects.

Respiratory disease health hazard evaluations; \$92,500/yr; ongoing; branch chief oversight.

Emerging issues in occupational respiratory disease; \$118,119/yr; ongoing; branch chief oversight.

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BIOGRAPHICAL SKETCH

6-12-2006

Bon-Ki Ku, Ph.D.	Associate Service Fellow, Tel: (513)841-4147 E-mail: BKu@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Korea Advanced Institute of Science and Technology, Daejeon, Korea	B.S.	1993	Mechanical Engineering
Korea Advanced Institute of Science and Technology, Daejeon, Korea	M.S.	1995	Mechanical Engineering
Korea Advanced Institute of Science and Technology, Daejeon, Korea	Ph.D.	2001	Aerosol Science in Mechanical Engineering

Positions

2004-present	Associate Service Fellow, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, Ohio
2003-2004	National Research Council (NRC) Fellow, National Institute for Occupational Safety and Health, Cincinnati, Ohio
2002-2003	Postdoctoral Associate, Mechanical Engineering Department, Yale University, New Haven, Connecticut
2001	Post-Doctor, Mechanical Engineering Department, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea
1999	Research Scholar, Mechanical Engineering Department, Yale University, New Haven, Connecticut
1995-2001	Research Assistant, Mechanical Engineering Department, Korea Advanced Institute of Science and Technology (KAIST), Daejeon, Korea

Honors

2006	CDC/ATSD Charles Shepard Award: Nominated, Centers for Disease Control and Prevention
2006	Alice Hamilton Award, National Institute for Occupational Safety and Health
2003-2004	National Research Council Research Associateship Award, National Academies
2002	Post-doctoral Fellowship Award, Korea Science and Engineering Foundation (KOSEF), Daejeon, Korea
1995	Excellent Paper Award, KAIST
1990-1991	Undergraduate Fellowship Award (over GPA 4.0/4.3), KAIST

Other experience and professional memberships

Member, American Association for Aerosol Research (2002-)

Peer-reviewed publications (2001-2006)

1. Bon Ki Ku, Sang Soo Kim, Y. D. Kim and S. Y. Lee (2001). Direct measurement of electrospray droplets in submicron diameter using a freezing method and a TEM image processing technique. *J. Aerosol Sci.*, 32(12), 1459-1477.
2. Bon Ki Ku and Sang Soo Kim (2002). Electrospray characteristics of highly viscous liquids. *J. Aerosol Sci.*, 33(10), 1361-1378.
3. Bon Ki Ku and Sang Soo Kim (2003). Electrohydrodynamic spraying characteristics of glycerol solutions in vacuum. *J. Electrostatics*, 57, 109-128.

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4. Bon Ki Ku, J. Fernandez de la Mora, Daniel A. Saucy and James N. Alexander IV (2004). Mass distribution measurement of water-insoluble polymers by charge-reduced electrospray mobility analysis. *Anal. Chem.*, 76(3), 814-822.
5. Bon Ki Ku and J. Fernandez de la Mora (2004). Cluster ion formation in electrosprays of acetonitrile seeded with ionic liquids. *J. Phys. Chem. B*, 108(39), 14915 – 14923.
6. Bon Ki Ku and Andrew D. Maynard (2005). Comparing aerosol surface-area measurements of monodisperse ultrafine silver agglomerates by mobility analysis, transmission electron microscopy, and diffusion charging. *J. Aerosol Sci.*, 36, 1108-1124.
7. Bon Ki Ku and J. Fernandez de la Mora (2005). Evaporation kinetics of tetra-alkylammonium Ions from charged formamide drops. *J. Phys. Chem. B*, 109 (22), 11173-11179.
8. Shvedova AA, Kisin ER, Mercer R, Murray AR, Johnson VJ, Potapovich AI, Tyurina YY, Gorelik O, Arepalli S, Schwegler-Berry D, Hubbs AF, Antonini J, Evans DE, Ku BK, Ramsey D, Maynard A, Kagan VE, Castranova V, Baron P. (2005). Unusual inflammatory and fibrogenic pulmonary responses to single walled carbon nanotubes in mice. *Am J Physiol Lung Cell Mol Physiol.*, 289, L698 - L708.
9. Bon Ki Ku and Andrew D. Maynard (2006). Generation and investigation of airborne silver nanoparticles with specific size and morphology by homogeneous nucleation, coagulation and sintering. *J. Aerosol Sci.*, 37 (4), 452-470.
10. Bon Ki Ku, Andrew D. Maynard, Paul A. Baron and Greg Deye (2006) Observation and measurement of anomalous responses in a differential mobility analyzer by ultrafine fibrous carbon aerosols. *J. Aerosol Sci.* (submitted).
11. Bon Ki Ku, Mark S. Emery, Andrew D. Maynard, Mark Stolzenburg and Peter H. McMurry (2006) *In situ* structure characterization of airborne carbon nanofibers by a tandem mobility-mass analysis. *Nanotechnology* (accepted for publication).
12. Bon Ki Ku, Andrew D. Maynard and Doug Evans (2005) Surface-area estimation of polydisperse nanoparticles with controlled morphologies. *Ann. Occup. Hyg.* (in preparation).
13. Andrew D. Maynard, Bon Ki Ku, Mark Emery, Mark Stolzenburg and Peter McMurry (2006). Airborne single walled carbon nanotube agglomerates show particle size-dependent physicochemical structure. *J. Nanoparticle Res.* (prepared).

Invited talks and seminars

- 9/2005 Presented at Korea Occupational Safety and Health Agency (KOSHA), Korea
3/2006 Presented at University of Kentucky, Lexington, KY

Presentations

16 presentations at conferences, meetings and symposia (2000-)

Additional skills

Experience of Transmission Electron Microscope (TEM) Manipulation

BIOGRAPHICAL SKETCH

03-31-2006

Gregory John Kullman, Ph.D.		Research Industrial Hygienist Tel: (304) 285 5959 E-mail: gkullman@cdc.gov	
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Central Missouri State University	B.S.	1978	Biology
Central Missouri State University	M.S.	1979	Industrial Hygiene
University of Iowa	Ph.D.	1995	Occupational and Environmental Health

Positions

- 1980-1979 Industrial Hygiene Technician
- 1984-1980 Industrial Hygienist, Environmental Research Team, USPHS, CDC, NIOSH, DRDS, Environmental Investigations Branch (EIB).
- 1990-1984 Industrial Hygienist, Respiratory Disease Health Hazard Evaluation Program, USPHS, CDC, NIOSH, DRDS, CIB.
- 1991-1990 Acting Coordinator - Respiratory Disease Health Hazard Evaluation Program, USPHS, CDC, NIOSH, DRDS, CIB.
- 1993-Date Senior Industrial Hygienist, Field Studies Branch, USPHS, CDC, NIOSH, DRDS, FSB.
- 1995-2004 Project Officer, NIOSH Centers for Agricultural Disease and Injury Research, Education, and Prevention, U.S. Public Health Service (USPHS), Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Division of Respiratory Disease Studies (DRDS).
- 1996-Date Division Representative to the NIOSH Agricultural Coordination Committee, USPHS, CDC, NIOSH, DRDS.
- 2001-Date Project Officer for Flavorings Related Respiratory Disease Research Project, U.S. Public Health Service (USPHS), Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Division of Respiratory Disease Studies (DRDS), Field Studies Branch (FSB).

Honors

- 1983 Public Health Service Citation Award
- 1989 Public Health Service Unit Commendation
- 1990 Nominated for the NIOSH Alice Hamilton Award
- 1991 Public Health Service Commendation Metal
- 1992 Public Health Service Unit Commendation
- 1994 Nominated for the NIOSH Alice Hamilton Award
- 1995 Public Health Service Achievement Metal
- 1996 Public Health Service Unit Commendation
- 1997 Public Health Service Outstanding Service Commendation
- 1998 Public Health Service Bicentennial Unit Commendation
- 2002 Public Health Service Unit Commendation
- 2002 Public Health Service Crisis Response Service Award
- 2002 Public Health Service Outstanding Unit Commendation
- 2003 Nominated for the NIOSH Alice Hamilton Award
- 2005 Outstanding Alumni Award, University of Iowa, School of Public Health

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Other Experience and Professional Memberships

American Board of Industrial Hygiene (Certified in the Comprehensive Practice of Industrial Hygiene)
Member of the American Industrial Hygiene Association (AIHA)
Member of the American Conference of Governmental Industrial Hygienists (ACGIH)
Member ACGIH Agricultural Health and Safety Committee, Committee Vice-Chair during 1996 to date
Member of the American Academy of Industrial Hygiene
Member of the United States Public Health Service, Commissioned Officers Association (COA). President of the West Virginia Chapter of COA in 1986, Treasurer in 1985, and Secretary in 2003
West Virginia University, Guest Lecturer in Industrial Hygiene and Occupational Medicine Departments during 1993 to Date

Peer Reviewed Publications

1. Morey P.R., Hodgson M.J., Sorenson W.G., Kullman G.J., Rhodes W.W., Visvesvara G.S.: Environmental studies in moldy office buildings: biological agents, sources and preventive measures. *Ann Am Conf Govern Ind Hyg*, 10:21-35, 1984.
2. Amandus H.E., Hanke W., Kullman G.J., Reger R.B.: A reevaluation of radiological evidence from a study of U.S. strip coal miners. *Arch Environ Health*, vol 39, no 5: 346-351, 1984.
3. Kullman G.J., Doak C.B., Keimig D.G., Cornwell R.J., Ferguson R.P.: Assessment of respiratory exposures from gilsonite mining and milling operations. *Am Ind Hyg Assoc J*, 50 8:413-418, 1989.
4. Weber S., Petsonk E., Kullman G.J., Jones W., Olenchock S., Sorenson W., Parker J.: Hypersensitivity Pneumonitis (HP) or Organic Dust Toxic Syndrome (ODTS): The clinical dilemma in organic dust exposures. *Am Rev Respir Dis*, 141:A588, 1990.
5. Kullman G.J., Hill R.A.: Indoor air quality affected by abandoned gasoline tanks. *Appl Occup Environ Hyg*, 5:36-37, 1990.
6. Sanderson W., Kullman G.J., Sastre J., Olenchock S., O'Campo A., Musgrave K., Green F.: Outbreak of hypersensitivity pneumonitis among mushroom farm workers. *Am J Ind Med*, 22:859-872, 1992.
7. Kullman G.J., Jones W.G., Cornwell R.J., Parker J.E.: Characterization of air contaminants formed by the interaction of lava and sea water. *Environ Health Perspect*, 10 5:478-882, 1994.
8. Thorne P.S., Lange J.L., Bloebaum P., Kullman G.J.: Bioaerosol sampling in field studies: Can samples be express mailed? *Am Ind Hyg Assoc J*, 55 11 1072-1079, 1994.
9. Jones W.G., Dennis J.W., Whitmer M.P., Siegel P.D., Sorenson W.G., Schwegler-Berry D., Kullman G.J.: Dust control during bedding chopping. *Appl Occup Environ Hyg*, 10 5:467-475, 1995.
10. Kullman G.J., Greife A.L., Costello J., Hearl F.J.: Occupational exposures to fibers and quartz at 19 crushed stone mining and milling operations. *Am J Ind Med*, 27 5:641-660, 1995.
11. Kullman G.J., Thorne P.S., Waldron P.F., Marx J.J., Ault B., Lewis D.L., Siegel P.D., Olenchock S.A., Merchant J.A.: Organic dust exposures from work in dairy barns. *Am Ind Hyg Assoc J*, 59:403-413, 1998.
12. Kullman G. J.: American Thoracic Society Group Publication, Respiratory health hazards in agriculture. *Am J Respir Crit Care Med*, Volume 158 :5, November 1998.
13. Hubbs A.F., Mercer R.R., Battelli L., Friend S., Schwegler-Berry D., Castranova V., Kreiss K., Kullman, G., Frazer D., Goldsmith W.T., Jones W.G.: Ultra-structural changes in the airways of rats inhaling butter flavoring vapors. *Toxicol Sci*, 66:194, 2002.
14. Hubbs A.F., Batelli L.A., Goldsmith W.T., Porter D.W., Frazer D., Friend S., Schwegler-Berry D., Mercer R.R., Reynolds J.S., Grote A., Castranova V., Kullman G., Fedan J.S., Dowdy J., Jones W.J.: Necrosis of nasal and airway epithelium in rats inhaling vapors of artificial butter flavoring. *Toxicol Appl Pharmacol*, 185:128-135, 2002.
15. Kreiss K., Gomaa A., Kullman G., et al.: Clinical bronchiolitis obliterans in workers at a microwave-popcorn plant. *N Engl J Med*, 347 5:330-338, 2002.

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16. Kullman G., Boylstein R., Jones W., Piacitelli C., Pendergrass S., Kreiss K.: Characterization of respiratory exposures at a microwave popcorn plant. *J Occup Environ Hyg*, 2:169-178, 2005.

Book Chapters and Invited Reviews

1. Olenchock S.A., Sorenson W.G., Kullman G.J., Jones W.G.: Biohazards in composted wood chips; in: *Biodeterioration and Biodegradation*, Elsevier Applied Science, London 8:481-483, 1991.
2. Jennison E.A., Kullman G.J., Parker J.E.: Site Visits: Part 1. Worksite evaluations; in: *Occupational and Environmental Respiratory Disease*. St. Louis: Mosby Year Book, Inc. Harber P, Schenker MB, Balmes JR, Eds. pp.141-150, 1996.
3. Eschenbacher W.L., Kullman G.J., Gomberg C.C.: Pulmonary effects of inhaled mineral dusts: Chapter Four. in: *Patty's Industrial Hygiene*, 5th Edition, Volume 1, John Wiley & Sons, Robert L Harris Ed. 2000.

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BIOGRAPHICAL SKETCH

Deborah Landen, M.D., Ph.D., M.P.H.	Medical Officer Tel: 412-386-4671 E-Mail: DLanden@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Michigan	B.A.	1971	
Wayne State University	M.D.	1976	
University of Pittsburgh	Ph.D.	1976	Epidemiology
University of Michigan	M.P.H.	1979	

Positions

8/13/1989-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

2000 CDC/ATSDR statistical science award for best applied research paper

Other Experience and Professional Memberships

M.D., Commonwealth of Pennsylvania, 1977

American Public Health Association

National Committee Assignments: Review panel for CDC Injury Research Center grants, National Center for Injury Prevention and Control CDC Injury grant program, March 2004.

Peer Reviewed Publications

15 publications in the areas of surveillance, noise and hearing, injury, stress. Recent publications include:

1. Landen D, Wilkins S, Stephenson M, McWilliams L. Noise exposure and hearing loss among sand and gravel miners. J Occup Environ Hyg. 2004 Aug;1(8):532-41.
2. Landen D, Burchfiel C, McWilliams L, Miller D. The cortisol response to awakening: a potential biomarker for occupational stress? Methodological issues. (abstract) National Occupational Research Agenda Symposium, Arlington, VA, June 2003.

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BIOGRAPHICAL SKETCH

Thomas J. Lentz, Ph.D., M.P.H.	Lead Health Scientist, Research Industrial Hygienist, EID, NIOSH Tel: 513-533-8260 E-Mail: TLentz@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Wittenberg University, Springfield, OH	B.A.	1989	Biology/Philosophy
Yale University, College of Medicine New Haven, CT	M.P.H.	1991	Environ. Health Sciences
University of Cincinnati (OH), College of Medicine	Ph.D.	1997	Environ. Health

Positions

1/05 – present	Lead Health Scientist (GS-0690-14), NIOSH, EID, Cincinnati, OH
10/97-1/05	Research Industrial Hygienist (GS-0690-13), NIOSH, EID, Cincinnati, OH
9/92-6/97	Graduate Research Assistant, University of Cincinnati (OH), College of Medicine
8/94-3/96	Field Industrial Hygienist, NIOSH, Cincinnati, OH
6/93-9/93	Industrial Hygiene Intern, ARCO Oil, Health/Environment Group, Dallas, TX
10/91-5/92	Environmental Consultant, Project Resources, Inc., San Diego, CA
5/90-8/90	Field Industrial Hygienist, Enviromed Services, Inc., New Haven, CT
1/90-5/90	Health Policy Intern, Connecticut Department of Health Services, Hartford, CT

Other Experience and Professional Memberships

Chair, ACGIH Small Business Committee (2002 – present)
Member, WHO/ILO International Technical Group on Control Banding (2003 – present)

Publications

1. Lentz TJ, Wenzl TL [2006]. Small businesses with high fatality rates: assessment of hazards and their prevention. J Occup Environ Hyg 3:D8-D14
2. Malkin R, Hudock SD, Hayden C, Lentz TJ, Topmiller J, Niemeier RW [2005]. Ergonomics Column: An Assessment of Occupational Safety and Health Hazards in Selected Small Businesses Manufacturing Wood Pallets--Part 1. Noise and Physical Hazards. J Occup Environ Hyg 2:D18-21.
3. Schulte PA, Lentz TJ, VP Anderson, AD Lamborg [2004]: Knowledge management appraisal of occupational hygiene in the United States. Ann Occup Hyg 48(7):583-594.
4. Lentz T, Votaw D, Ahlers H, Hendricks K, Pratt S, Coleman P, Ehrenberg R, Gillen M [2004]: Occupational fatalities during trenching and excavation work – United States, 1992 – 2001. MMWR 53(15), April 23: 311-314.
5. Lentz TJ, Rice CH, Succop PA, Lockey JE, Dement JM, Lemasters GK [2003]: Pulmonary deposition modeling with airborne fiber exposure data in an epidemiologic study of workers who manufacture refractory ceramic fibers. App Occup Environ Hyg J 18(4):278-288.
6. Lentz TJ [2002]: Building consensus - The work of powerful partnerships. The Synergist, AIHA, Nov:25-6.
7. Malit BD, Lentz TJ, Loos G, Rice FL [2002]: Silicosis in Sandblasters – A Case Study Adapted for Use in U.S. High Schools. DHHS (NIOSH) Publication No. 2002-105.
8. Lentz TJ, MacMahon K, Zumwalde R, Haring Sweeney M [2001]: The A-B-C's of OELs – A discussion of occupational exposure limits. The Synergist, AIHA, October: 17-26.

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9. Lentz TJ, Sieber WK, Jones JH, Piacitelli GM, Catlett LR [2001]: Surveillance of safety and health programs and needs in small U.S. businesses. *App Occup Environ Hyg J* 16:1016-1021.
10. Okun AH, Lentz TJ, Schulte PA, Stayner LT [2001]: Identifying high-risk small business industries for occupational safety and health interventions. *Am J Industr Med* 39:301-311.
11. Finnegan G, Morgan V, Lentz TJ [2000]: Safety and Health Resource Guide for Small Businesses. DHHS (NIOSH) Publication No. 2000-148.

Selected Presentations (2001-2006)

1. Lentz TJ [2005]. National efforts to promote control-focused guidance strategies. American Public Health Association Annual Conference, Philadelphia, PA, December 10-14.
2. Lentz TJ [2005]. Control banding: A control-focused tool for limiting chemical exposures in the workplace. Independent Lubricant Manufacturers' Association Annual Meeting, Orlando, FL, October 17-19.
3. Lentz TJ (arranger and moderator), Platner J, Sant B, Broderick T, Gillen M [2005]. Gathering tools for construction safety and health. Technical session at the National Safety Congress, Orlando, FL, September 19-23.
4. Lentz TJ, Niemeier R [2005]. Control banding update: Research needs and opportunities for applications in the United States. Presentation at the World Congress on Occupational Safety and Health at Work, Orlando, FL, September 19-21.
5. Lentz TJ [2005]. Controlling occupational exposures to airborne contaminants. Invited presentation for the West Central Ohio Safety Council Seminar Series, Lima, OH, September 13.
6. Lentz TJ [2005]. Progress and pitfalls for control banding applications in the United States. Presentation in professional development course (PDC 303: Introduction to Control Banding) at the American Industrial Hygiene Conference and Exposition, Anaheim, CA, May 21-26.
7. Weinrich A, Lentz TJ, Hoover M, Geraci CL [2005]. Exploring control banding principles for environments that may be immediately dangerous to life and health (IDLH). Poster presentation, American Industrial Hygiene Conference and Exposition, Anaheim, CA, May 21-26.
8. Lentz TJ [2005]. Control-focused solutions and interventions targeting small business industries. Presentation at the British Occupational Hygiene Society's Occupational Hygiene 2005. Manchester, U.K., April 19-21.
9. Newsome CS, Lentz TJ, Niemeier RW, Spencer PJ, Ripple SD, Chervenak MD, Stewart E, Derman SJ [2005]. A proposed training program for the safe application of disinfectants in healthcare – Case study for Glutaraldehyde. Presentation at the British Occupational Hygiene Society's Occupational Hygiene 2005. Manchester, U.K., April 19-21.
10. Lentz TJ [2005]. Science and solutions: occupational exposure to refractory ceramic fibers (RCF). Presentation at the University of Cincinnati Department of Environmental Health Seminar Series. Cincinnati, OH, January 19.
11. Lentz TJ, Niemeier RW [2004]. Introduction to Control Banding. Central Indiana AIHA Section Professional Development Course, Indianapolis, IN, December 3.
12. Lentz TJ, Niemeier RW [2004]. Control Banding Concepts: Task-based guidance to control hazards in small business. Society for Chemical Hazard Communication Fall Conference, Arlington, VA, October 26-27.
13. Lentz TJ, Niemeier RW [2004]. Control Banding Strategies: Applications for silica and silicosis prevention. NIOSH SENSOR Silicosis Workshop, Morgantown, WV, October 6-7.
14. Lentz T, Niemeier R [2004]: The NIOSH Control Banding Team – Applying the Concepts to U.S. Small Business Industries. The Dow Chemical Company Headquarters/Technical Center, Midland, MI, June 22.

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15. Nelson D, Tait K, Zalk D, Silk J, Hewett P, Niemeier R, Lentz TJ [2004]: Control banding: Is the U.S. ready? Roundtable at the American Industrial Hygiene Conference and Exposition, Atlanta, GA, May 8-13.
16. Newsome C, Spencer P, Ripple S, Lentz T, Niemeier R, et al. [2004]: Controlling exposure to glutaraldehyde. Workshop at the BOHS Occupational Hygiene 2004. Stratford, U.K., April 20-22.
17. Malkin R, Lentz TJ [2003]: Hazards and suggested control methods for the wood pallet manufacturing industry. Third National Occupational Injury Research Symposium, Pittsburgh, PA, October 28-30.
18. Lentz TJ [2003]: An Overview of selected research and interventions in occupational safety and health. Invited lecture, Wittenberg University Department of Biology Seminar Series, Springfield, OH, April 7.
19. Malit B, Lentz T [2002]: Introduction to occupational epidemiology and industrial hygiene: A web-based case study on silicosis in sandblasters. Best Practices in Occupational Safety and Health...Ideas That Sizzle, Baltimore, MD, October 27-30.
20. Lentz T (arranger), Haring Sweeney M, Karmol D, Glenn R, Comer Bradley J, Foley S, Wilson J [2002]: Consensus standards — Setting common goals to promote occupational safety and health. Roundtable at the American Industrial Hygiene Conference and Exposition, San Diego, CA, June 1-6.
21. Lentz T (arranger), MacMahon K, Zumwalde R, Naumann B, Faraci J, Woodhull D, Perry W, Oldershaw P, Sweeney M [2001]: Occupational exposure limits: What do they mean to you? Roundtable at the American Industrial Hygiene Conference and Exposition, New Orleans, LA, June 2-7.

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BIOGRAPHICAL SKETCH

03-31-2006

Xiaoming Liang, M.S.	Associate Service Fellow Tel: (304) 285 6217 E-mail: ALiang@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Qiqihaer Normal University, Qiqihaer, China	B.S.	1985	Mathematics
West Virginia University, Morgantown, WV	M.S.	2003	Statistics

Positions

1985-1995	Mathematics Instructor, 122 High School, Harbin, China
2001-2003	Research Assistant, Statistics Department at West Virginia University
2003-2004	Web-based application programmer, Division of Forestry at West Virginia University (part time)
2004-Date	Associate Service Fellow (SAS programmer), Field Studies Branch/DRDS/NIOSH/CDC

Honors

2005	SAS Certified Base Programmer from SAS Institute
2006	NIOSH –Approved Spirometry Testing course # 078, Morgantown, WV

Peer Reviewed Publications

1. Liang X.: Solution to an equation with multiple methods. *J Mid Sch Stud*, No. 7-8: 54-55, 1991.
2. Yang H., Liang X.: Constant equation of reverse function. *J Math High Sch Stud*, No. 10: 34-35, 1991.
3. Liang X.: Application of conjugate radical expression. *J Math Phy Chem Mid Sch Stud*, No. 5: 4-6, 1991.
4. Liang X.: Solution to irrational equation by using conjugate radical expression. *J Math Phy Chem Mid Sch Stud*. No. 1: p. 28, 1992.

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BIOGRAPHICAL SKETCH

03-31-2006

Kenneth D. Linch, M.S.		Engineer/Industrial Hygienist Tel: (304) 285 6291 E-mail: KLinch@cdc.gov	
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University	B.S.E.M.	1978-82	Mining Engineering
West Virginia University	M.S.	1990-93	OSH Engineering

Positions

- 1985-1989 Field Surveyor for the National Occupational Health Survey of Mining, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV - Duties included scheduling and conducting walk-through surveys of mines across the country to appraise existing environmental hazards.
- 1989-1991 Project Officer for "Environmental Surveillance of Small Coal Mines", Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV - Analyzed data from national health and environmental databases to assess the respiratory health risk associated with small coal mines.
- 1991-1999 Project Officer for the project: "Emerging Problems in the Construction Industry", Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV -Conducted a field investigation of crystalline silica exposure in the construction industry.
- 1999-Date Occupational Safety and Health Specialist V, N.S. (Industrial Hygienist), Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV - Assignment is a mixture of self directed and team research/surveillance covering an array of lung disease hazards.

Honors

- 2001 Secretary's Recognition Award for Heroism, Exceptional Volunteer Service - Presented to: The NIOSH Disaster Response Worker Protection Team, for exceptional service protecting emergency responders and disaster relief and recovery workers from dangerous hazards and exposures at the World Trade Center site. Tommy Thompson, Secretary
- 2002 Centers for Disease Control, Certificate of Appreciation - In recognition of dedicated service
- 2003 The Society of American Military Engineers CUMMING AWARD - In recognition of the men and women, of the National Institute for Occupational Safety and Health for heroism and bravery in their response to the World Trade Center Collapse and their response to acts of bioterrorism.
- Federal Emergency Management Agency, New York State Emergency Management Office, Certificate of Appreciation, In grateful appreciation for your professionalism, compassion and courage in supporting the people of New York affected by the September 11, 2001 World Trade Center attack.
- Centers for Disease Control, Certificate of Recognition, For your extraordinary efforts on behalf of the American people in response to the public health emergencies after September 11, 2001.
- Centers for Disease Control, Certificate of Appreciation, for diligence, persistence and excellence in completing the field data collection phase of the National Occupational Health Survey of Mining. October 1, 1989.

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PHS Awards

1987	The Unit Commendation - For work associated with the National Occupational Health Survey of Mining project
1988	The Hazardous Duty Award - For work associated with the National Occupational Health Survey of Mining project
1990	The Unit Commendation - For exemplary performance of duty
1995	The Achievement Medal - For exemplary performance of duty
1997	The Commendation Medal - For exemplary performance of duty
1997	The Outstanding Unit Citation - For exemplary performance of duty
2002	The Outstanding Unit Citation - For exemplary performance of duty
2002	The Crisis Response Service Award

Peer Reviewed Publications

1. Linch K.D., Cocalis, J.C.: Silicosis prevention in construction: lessons learned from surface coal mine drilling. *Appl Occup Environ Hyg*, Construction Department, 1994.
2. Linch K.D., Parker J.E.: Taking silicosis personally. West Virginia University, Center For Excellence in Construction Safety, *Excel*, 1995.
3. Linch K.D.: Concrete and masonry dust a concern for developing lung disease. *IMPACT on Construction Safety and Health*, 1995.
4. Linch K.: Crystalline silica dust exposure: compliance in the construction industry. *Appl Occup Environ Hyg*, 12 9, 1997.
5. Linch K.D., Miller W.E., Althouse R.B., Groce DW, Hale J.M.: Surveillance of respirable crystalline silica dust using OSHA compliance data (1979-1995). *Am J Ind Med*, 34:547-558, 1998.
6. Linch K.D.: Respirable concrete dust - silicosis hazard in the construction industry. *Appl Occup Environ Hyg*, Vol 17 3: 209-221, 2002.

Book Chapters and Invited Reviews

Linch K.D.: Prevention of silicosis in concrete and masonry workers; in: Implementation of Safety and Health on Construction Sites, Balkema, Rotterdam, Singh, Hinze & Coble, Eds. ISBN 905809 036 1, 1999.

NIOSH Numbered Documents

1. Linch K.D., Groce D.W., Musgrave K.J., Jajosky R.A., Short S., Parker J.E., Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health: NIOSH ALERT: Request for assistance in preventing silicosis and deaths in construction workers. *DHHS (NIOSH) Publication No. 96-112*, May 1996.
2. Linch K.D., et al.: Construction workers: its not just dust! Prevent silicosis. *DHHS (NIOSH) Pub. No. 97-101*, 1996.

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BIOGRAPHICAL SKETCH

Jeffrey M. Listak	Mining Engineer Tel: 412-386-5082 E-Mail: JListak@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh	B.S.	1981	Mining Engineering

Positions

12/22/1996-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

1998 SME Stefanko Best Paper Award
1983 SME Coal Division Best Paper Award

Other Experience and Professional Memberships

Society of Mining Engineers

Peer Reviewed Publications

14 publications in the areas of Dust Monitoring and Control. Recent publications include:

1. Chekan GJ, Listak JM, Colinet JF [2004]. Factors Impacting Respirable Dust Entrainment and Dilution in High Velocity Airstreams. SME Transactions, vol. 316 pp. 186-192.
2. Listak JM [2003]. A Method to Determine the Effects of Rotary Drilling Parameters and Overburden Rock on Silica Dust Generation. SME Transactions, vol 314, pp 102-106.
3. Listak JM., Chekan GJ, Colinet JF [2001]. Laboratory Evaluation of Shield Dust Entrainment in High Velocity Airstreams. SME Transactions. Volume 310, pp. 155-160.
4. Goodman, GVR, Listak JM, Organiscak JA [2001]. Occupational Silica Dust Exposures and Their Control on Continuous Mining Operations. SME v. 310 pp. 63-68 SME Transactions.

Conference Proceedings

1. Colinet JF, Goodman GV, Listak JM, Chekan GJ, Rider JP, Pollock D, Beck TW, Thimons E [2005]. 8th International Mine Ventilation 2005 Congress. Brisbane, QLD, Australia, July 6-8.
2. Colinet JF, Chekan GJ, Listak JM, Rider JP [2002]. Ventilation Impacts on Respirable Dust Control. Proceedings North American 9th US Mine Ventilation Symposium, Kingston, Ontario, June 8-12, 2002.
3. Rider JP, Colinet JF, Chekan GJ, Listak JM [2001]. Longwall Dust Control: Issues and Solutions. Proceedings Longwall USA. June 13-14, pp. 91-110.
4. Chekan GJ, Listak JM, Colinet JF [2001]. Laboratory Testing to Quantify Dust Entrainment During Shield Advance. Proceedings 7th International Mine Ventilation Congress. Krakow, Poland. June 17-22, pp. 291-298.
5. Colinet JF, Listak JM [1999]. Reducing Worker Exposure to Respirable Dust at Longwall Mining Operations. Proceedings of the International Conference on Control of Dust Hazards in the Mining Industry. Wisla, Poland, October 5-7, 1999. Chapter XI, pp 1-8.
6. Listak JM., Goodman GVR, Jankowski RA [1999]. Considerations for Estimating Remote Operator Dust Exposure Using Fixed-Point Samples on Continuous mining Sections. Proceedings of the 8th U.S. Mine Ventilation Symposium, University of Missouri, Rolla, June 11-17, pp 249-254.

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Magazine Article:

Rider JP, Colinet JF, Listak JM, Chekan GJ [2001]. Evaluating Longwall Dust Sources and Controls. World Coal, October, pp. 71-76.

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BIOGRAPHICAL SKETCH

Kathleen L MacMahon, D.V.M.	Biologist Tel: 513-533-8547 E-Mail: KMacMahon@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Bowdoin College, Brunswick, ME	A.B.	1983	Biology
University of New Hampshire, Durham, NH	M.S.	1988	Zoology
University of Minnesota, St. Paul, MN	D.V.M.	1994	Veterinary Medicine

Positions

- 1991-94 Research Assistant, University of Minnesota College of Veterinary Medicine, St. Paul, MN
1995-97 Lecturer, Biology Dept., Sinclair Community College, Dayton, OH
1995-97 Toxicologist, Armstrong Laboratory, Wright-Patterson Air Force Base, Dayton, OH
1997-98 Senior Research Toxicologist, Air Force Research Laboratory, Dayton, OH
1999-present Biologist, Education and Information Division, National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, OH

Other Experience and Professional Memberships

American Veterinary Medical Association
American Association of Public Health Veterinarians
Association of Women Veterinarians

Publications

1. Alexander WK, Briggs GB, Still KR, Jederberg WW, MacMahon K, Baker WH, Mackerer C. 2001. Toxicity of 2,6-Di-tert-butyl-4-nitrophenol. *Appl Occup Environ Hyg*, 16(4):487-495.
2. Eggers J, Channel S, Graeter L, Johnson P, MacMahon K, Sudberry G, Warren A, Latendresse J. 1999. Use of hematoxylin stain to enhance evaluation of heart malformations in the fetal rat. *Teratology*, 59(3): 173-175.
3. Fisher JW, Channel SR, Eggers JS, Johnson PD, MacMahon KL, Goodyear CD, Sudberry GL, Warren DA, Latendresse JR, Graeter LJ. 2001. Trichloroethylene, trichloroacetic acid, and dichloroacetic acid: do they affect fetal rat heart development? *Int J Toxicol*, 20(5):257-267.
4. MacMahon, K. 1983. Short-term temporal cycles in the frequency of suicide, United States, 1972-78, *American Journal of Epidemiology*, 117(6), 744-751.
5. Nordholm AF, Rossi J, Ritchie GD, McInturf S, Hulme ME, McCool C, Narayanan L, MacMahon KL, Eggers J, Leahy HF, Wolfe RE. 1999. Repeated exposure of rats to JP-4 vapor induces changes in neurobehavioral capacity and 5-HT/5-HIAA levels. *J Toxicol Environ Health*, 56(7):471-99.

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BIOGRAPHICAL SKETCH

03 -27-2006

Travis Gerald Markle, M.S.	IT Specialist Tel: (304) 285 6304 E-mail: TMarkle@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Fairmont State College	B.S.	1993	Computer Science
West Virginia University	M.S.	1996	Computer Science

Positions

1987-1989 Laborer, Tomar, Inc., Keyser, WV
1989-1996 Computer Consultant, Tomar, Inc., Keyser, WV
1994-1996 Graduate Teaching Assistant, West Virginia University, Morgantown, WV
1997-1998 Computer Programmer, HGO Technology, Morgantown, WV
1998-Date IT Specialist, NIOSH, Morgantown, WV

Memberships

2005-Date Board of Trustees, Christian Missionary and Alliance Church, Morgantown, WV

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BIOGRAPHICAL SKETCH

03 -27-2006

Stephen B. Martin, Jr., M.S.	Engineer, LRB, DRDS Tel: (304) 285 6367 E-mail: SMartin1@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown, WV	B.S.	1994	Chemical Engineering
University of Delaware, Newark, DE	M.S.	1997	Environmental Engineering

Positions

1994-1996	Research Assistant, Dr. Herbert E. Allen, Department of Civil & Environmental Engineering, University of Delaware, Newark, Delaware
1996-1997	Independent Engineering Consultant, ICI Americas Inc., The Volunteer Site, Chattanooga, Tennessee
1997-1997	Entry-Level Engineer, Potomac-Hudson Engineering, Inc., Bethesda, Maryland
1997-Date	Engineer (Occupational Safety & Health Specialist), National Institute for Occupational Safety and Health, Division of Respiratory Disease Studies, Laboratory Research Branch, Morgantown, West Virginia

Honors

2000	Nominated for 2000 Alice Hamilton Award
2002	PHS Unit Commendation, February 2002
2003	Society of American Military Engineers Public Health Service Cumming Engineering Achievement Award
2003	PHS Outstanding Unit Citation, May 2003
2004	PHS Commissioned Corps Training Ribbon, March 2004
2004	PHS Unit Commendation, March 2004
2005	PHS Outstanding Unit Citation, January 2005
2005	PHS Commendation Medal, October 2005

Other Experience and Professional Memberships

Analytical Sample Coordinator for NIOSH Morgantown facility
Program Chair and Voting Member, American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) Technical Group for Ultraviolet Air and Surface Treatment (TG2UVAS)
Voting Member, ASHRAE Standards Project Committee #185 – “Method of Testing UVC Lights for Use in Air Handling Units or Air Ducts to Inactivate Airborne Microorganisms.”
Voting Member, American Industrial Hygiene Association (AIHA) Engineering Committee
Corresponding Member, ASHRAE Technical Committee for Gaseous Air Contaminants and Gas Contaminant Removal Equipment (TC 2.3)
Corresponding Member, ASHRAE Technical Committee for Particulate Air Contaminants and Particulate Contaminant Removal Equipment (TC 2.4)
Member, American Conference of Governmental Industrial Hygienists (ACGIH)
Member, American Industrial Hygiene Association (AIHA)
Member, American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE)
Member, American Institute of Chemical Engineers (AIChE)
Member, U.S. Public Health Service Commissioned Officers Association (COA)
Member, Reserve Officers Association of the United States (ROA)
Member, Society of American Military Engineers (SAME)

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Peer Reviewed Publications

1. Martin, S.B., Allen H.E.: Recycling EDTA after heavy metals extraction. *CHEMTECH*, 26 4:23-25, 1996.
2. Martin, S.B.; Moyer, E.S.: Electrostatic respirator filter media: filter efficiency and most penetrating particle size effects. *Appl Occup Environ Hyg*, 15 8:609-617, 2000.
3. McCawley, M.; Martin, S.B.; Moyer, E.S.; Berakis, M.; Hornsby-Myers, J.; Kent, M.: Development of a filter assembly to match the deposition of ultrafine aerosol in the lung: a pilot study with beryllium. *Annu Occup Hyg*, 46 Supplement 1 :215-218, 2002.
4. Heitbrink, W.A.; Moyer, E.S.; Jensen, P.A.; Watkins, D.S.; Martin, S.B.: Environmental agricultural cab filter efficiency and field evaluation. *Am Ind Hyg Assoc J*, 64:394-400, 2003.
5. Kanwal R., Kullman G., Piacitelli C., Boylstein R., Sahakian N., Martin S. B., Fedan K., Kreiss K.: Evaluation of flavorings-related lung disease risk at six microwave popcorn plants. *J Occup Environ Med*, 48 2:149-157, 2006.
6. Martin S.B., Beamer B.R., Moyer E.S.: Evaluation of high-efficiency filter bank system. *J Occup Environ Hyg*, 3:204-213, 2006.
7. Martin S.B., Moyer E.S., Jensen P.A.: Powered air-purifying particulate respirator filter penetration by a DOP aerosol. *J Occup Environ Hyg*, In Press
8. Martin S.B., Moyer E.S., Jensen P.A.: Integrated unit performance testing of powered air-purifying particulate respirators using a DOP challenge aerosol. *J Occup Environ Hyg*, In Press.

Book Chapters and Invited Reviews

1. Stiller A.H., Dadyburjor D.B., Stinespring C.D., Chadha A., Tian D., Martin S.B., Agarwal S.: Preparation of iron-sulfide-based catalysts using an aerosol technique; Presented: Symposium on Advanced techniques in catalyst preparation, presented before the Division of Petroleum Chemistry, Inc., 209th National Meeting of the American Chemical Society, Anaheim, CA. pp. 44-47, 1995.
2. Martin S.B., Dougherty D.J., Allen H.E.: Remediation of lead contaminated soil by washing using complexing agents with electrochemical recovery of complexing agent and lead; in: Proceedings of the 10th International Conference on Heavy Metals in the Environment, Vol 2, Hamburg, Germany. pp. 407-410, 1995.
3. Martin S.B., Dougherty D.J., Allen, H.E.: Electrochemical recovery of EDTA and heavy metals from washing of metal Contaminated Soil; in: Emerging Technologies in Hazardous Waste Management VII, Tedder and Pohland, Eds. Plenum Press, New York.. Chapter 13, pp. 159-165, 1997.
4. Coffey, C.C.; Martin, S.B.; Sahakian, N.: NIOSH Health Hazard Evaluation Report 2002-0343-2902. Fayette County Courthouse, Uniontown, Pennsylvania, 2003.
5. Beamer, B.; Crouch, K.G.; Martin, S.B.; Moyer, E.S.; Topmiller, J.L.: In-depth survey report: Evaluation of local exhaust ventilation system for the 010 culling system and United States Postal Service, Merrifield processing and distribution center, Merrifield, Virginia, October 9-10, 15, 17, 2002. *U.S. DHHS, PHS, CDC, NIOSH, NTIS*, Pub. No. PB 279 14-a2, 2003.
6. Beamer, B.; Martin, S.B.; Moyer, E.S.; Topmiller, J.L.; Crouch, K.G.: In-depth survey report: Evaluation of local exhaust ventilation system for the advanced facer canceller system at the United States Postal Service, Cleveland processing and distribution center, Cleveland, Ohio, March 25-27, 2003. *U.S. DHHS, PHS, CDC, NIOSH, NTIS*, Pub. No. PB 279 19-a, 2004.
7. Campbell, D.; Beamer, B.; Martin, S.B.; Topmiller, J.L.; Crouch, K.G.; Moyer, E.S.: In-depth survey report: evaluation of ventilation/filtration system for the 010 culling system, United States Postal Service, Cleveland processing and distribution center, Cleveland, Ohio, March 25-27, 2003. *U.S. DHHS, PHS, CDC, NIOSH, NTIS*, Pub. No. PB 279 20-a, 2004.
8. Martin, S.B.; Coffey, C.C.: NIOSH Health Hazard Evaluation Report 2003-0346-2969. Salvation Army Harbor Light Center, St. Louis, Missouri, 2005.

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9. Cummings K. J., Pearce T.A., Kitt M., Martin S.B.: NIOSH Health Hazard Evaluation Report 2005-0329-2995. Swannanoa Valley Youth Development Center, Swannanoa, North Carolina, 2006.

NIOSH/CDC Guidelines

1. CDC: Guidelines for preventing the transmission of *mycobacterium tuberculosis* in health-care settings, 2005. *MMWR*, 54 RR-17, 2005.
2. CDC: Guidelines for the prevention and control of tuberculosis in correctional and detention facilities, 2006. *MMWR*, In Press.

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BIOGRAPHICAL SKETCH

03 -27-2006

Jacek Mazurek, Ph.D.	Senior Service Fellow, Team Leader Tel: (304) 285 5983 E-mail: JMazurek1@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Warsaw Medical Academy, Poland	M.D.	1994	Medicine
SUNY, School of Public Health, Albany, NY	M.S.	2000	Epidemiology
National Institute of Hygiene, Warsaw, Poland	Ph.D.	2001	Medical sciences

Positions

1994–1995	Junior Position After Graduation, Voivodship Hospital, Ciechanow, Poland
1995–1996	Medical Representative, Asta Medica Sp. z o.o., Warsaw, Poland
1996–1998	Physician, Medical Rehabilitation Clinic, Voivodship Hospital, Ciechanow, Poland
1997–1998	Occupational Diseases Assistant, Environmental Health Department, Voivodship Sanitary-Epidemiology Station, Ciechanow, Poland
1998–2004	Medical Epidemiologists, Head of Laboratory of Infectious Diseases Surveillance, Epidemiology Department, National Institute of Hygiene, Warsaw, Poland
2002–2004	EIS Officer, State Branch, Division of Applied Public Health Training, Epidemiology Program Office, Centers for Disease Control and Prevention, Atlanta, GA (assigned to the Ohio Department of Health, Columbus, OH)
2004–Date	Senior Service Fellow, Team Leader, Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

2004	Honor Award Certificate, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA
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Other Experience and Professional Memberships

1991	Editor of the materials of the Scientific Conference on Emergence, Reemergence, and Bioterrorist Threats from Animal-borne Infections. May 9–11, 2001, Warsaw, Poland. <i>Przeegl Epidemiol</i> 2001; Suppl 2
1997–2002	Member, Polish Society of Epidemiologists and Infectious Diseases Specialists; Warsaw, Poland
2003	Member, Association for Professionals in Infection Control and Epidemiology, Washington, DC
2005	Member, Council of State and Territorial Epidemiologists; Atlanta, GA
2005	Member, American Public Health Association; Washington, DC

Peer Reviewed Publications

1. Mazurek J., Hutin Y., McNutt L-A., Morse D.: Evaluation of the hepatitis C surveillance system in Poland in 1998. *Epidemiol Infect*, 129:119–125, 2002.
2. Mazurek J., Salehi E., Propes D., Holt J., Bannerman T., Nicholson L.M., Bundesen M., Duffy R., Moolenaar R.L.: A multistate outbreak of *Salmonella enterica* serotype Typhimurium infection linked to raw milk consumption Ohio, 2003. *J Food Prot*, 67:2165–2170, 2004.
3. Mazurek J., Holbert L., Parrish M.K., Salehi E.: Raw eggs - lessons learned from an outbreak of *Salmonella* serotype Enteritidis infections associated with meringue pie. *J Public Health Manag Pract*, 11 3:201–207, 2005.

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4. Mazurek J.M., Winpisinger K., Mattson B.J., Duffy R., Moolenaar R.L.: The epidemiology and early clinical features of West Nile virus infection - Ohio, 2002. *Am J Emerg Med*, 23:536–543. doi:10.1016/j.ajem.2004.11.005, 2005. Book Chapters and Invited Reviews
5. Mazurek J., Kuszewski K.: Pertussis [Krzusiec]; in Magdzik W., Naruszewicz-Lesiuk D Eds. Zakażenia i zagrożenia człowieka. Epidemiologia, zapobieganie i zwalczanie. Warszawa. Wydawnictwo Lekarskie PZWL, 2001:217-221.
6. Mazurek J.: Scarlet fever [Płonica]; in Magdzik W., Naruszewicz-Lesiuk D Eds. Zakażenia i zagrożenia człowieka. Epidemiologia, zapobieganie i zwalczanie. Warszawa. Wydawnictwo Lekarskie PZWL, 2001:292–298.
7. Mazurek J., Kuszewski K.: Tetanus [Teżec]; in Magdzik W., Naruszewicz-Lesiuk D Eds. Zakażenia i zagrożenia człowieka. Epidemiologia, zapobieganie i zwalczanie. Warszawa. Wydawnictwo Lekarskie PZWL, 2001:371-376.

BIOGRAPHICAL SKETCH

6-12-2006

Kenneth R. Mead, M.S., P.E.	Research Mechanical Engineer Tel: (513)841-4385 E-mail: KMead@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Wichita State Univ., Wichita, KS	B.S.	1983-1989	Mechanical Engineering
Univ. of Oklahoma (HSC) – Oklahoma City, OK	M.S.	1999-2001	Industrial Hygiene

Positions

- 2001-present Research Mechanical Engineer, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1999-2001 Graduate Student, long-term training assignment, University of Oklahoma, MS-Industrial Hygiene with emphasis in Industrial ventilation and fluid flow.
- 1993-1999 Mechanical Engineer, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1987-1993 U.S. Army Officer, Medical Service Corps, primary locations: San Antonio, TX & Edgewood, MD

Honors

- 2006 NIOSH Partnering Award for Worker Health & Safety – Haz. Drugs Project
- 2005 Inaugural Bullard-Sherwood Award for Research2Practice (NIOSH)
- 2005 PHS Engineering Literary Award – Research Category
- 2005 PHS Engineering Literary Award – Regulations Category
- 2005 Shepard Science Award (nominee), CDC
- 2003 PHS Engineering Literary Award - Engineering Applications Category
- 2001 Academic Excellence Award, OU Health Sciences Center
- 2001, 2005 Society of American Military Engineers Cumming Award
- 2000 Alice Hamilton Award, NIOSH
- 2000 Shepard Science Award (nominee), CDC
- 2000 PHS Engineering Literary Award - Engineering Applications Category
- 1999 Reserve Officer Assoc. VADM C. Everett Koop Award (nominee)
- 1999 Best Published Peer-Reviewed Paper, Michigan Industrial Hygiene Society
- 1998 Innovations in American Government (finalist), Harvard University
- 1998 Blue Pencil Award – 1st Place – National Assoc of Govt. Communicators
- 1997 Ian K. Burgess Outstanding Young Engineer Award, PHS/ EPAC
- 1997 ACGIH John J. Bloomfield Award (nominee)
- 1996 NIOSH Partnering Award for Worker Health & Safety – Asphalt Paving Project
- 1995-2000 Best Poster in Session (awarded four times), American Industrial Hygiene Conferences

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Other experience and professional memberships

Deputy Team Leader, Applied Public Health Response Team #3, Centers for Disease Control and Prevention (CDC), U.S. Public Health Service (2006-)
Committee Member, American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE), Technical Committee on Design of Health Care Facilities, TC9.6, (2006-)
Committee Member, American Conference of Governmental Industrial Hygienists (ACGIH), Industrial Ventilation Committee, (1996-2004)
Committee Member, White House Office of Homeland Security – Building Air Protection Subcommittee, (2001-2002)
Member, ASHRAE (1990-); ACGIH (1993-); Society of American Military Engineers (SAME) (2000-)

Journal Manuscripts

1. Earnest GS., Gressel, M.G., Mead, K.R., Using Filtration Systems to Protect Building Environments from Airborne Chemical, Biological, or Radiological Attacks. *Engineered Systems*. Oct. 2005, 38-47
2. Mead, K. and D.L. Johnson, An evaluation of portable high-efficiency particulate air filtration for expedient patient isolation in epidemic and emergency response. *Ann Emerg Med*, 2004. 44(6): p. 635-45.
3. Valiante, D.J., Schill, D.P., et al., Responding to a bioterrorist attack: environmental investigation of anthrax in New Jersey. *Appl Occup Environ Hyg*, 2003. 18(10): p. 780-5.
4. Mead, K.R. and M.G. Gressel, Protecting building environments from airborne chemical, biological, or radiological attacks. *Appl Occup Environ Hyg*, 2002. 17(10): p. 649-58.
5. Mead-KR; Gressel-MG; Reed-LD, Notice to Readers: Protecting Building Environments from Airborne Chemical, Biologic or Radiologic Attacks. *MMWR* 51(35) pp 789, September 6, 2002.
6. Shulman SA, Mead KR, Mickelsen RL [2002]. Modeling Performance of Engineering Controls When Reductions are Largest at the Highest Environmental Concentration of the Hazardous Contaminant. In: *Proceedings of the American Statistical Association 159th Annual Meeting*. New York, NY: American Statistical Association, CD ROM.
7. Greene CM, Reehuis J, Tan C, Fiore AE, Goldstein S, Beach MJ, et al. [2002]: *Epidemiologic Investigations of Bioterrorism-Related Anthrax, New Jersey, 2001*. *Emerg Infect Dis* 2002(8):1048-1055.
8. Mickelsen, R.L., Mead, K.R., et al., Evaluating engineering controls during asphalt paving using a portable tracer gas method. *Am J Ind Med*, 1999. Suppl 1: p. 77-9.
9. Mead, K.R., R.L. Mickelsen, and T.E. Brumagin, Factory performance evaluations of engineering controls for asphalt paving equipment. *Appl Occup Environ Hyg*, 1999. 14(8): p. 565-73.
10. Heitbrink, W.A., Earnest, G.S., et al., Evaluation of leakage from a metal machining center using tracer gas methods: a case study. *Am Ind Hyg Assoc J*, 1999. 60(6): p. 785-8
11. Mead, KR; Mickelsen, RL; and T.E. Brumagin, "Engineering Controls for Asphalt Paving Equipment: Paving the Path to Progress" *The Synergist*, September 1997, 8(9):30-31.

Federal Government Publications

1. NIOSH [2004]. NIOSH alert: preventing occupational exposure to antineoplastic and other hazardous drugs in health care settings. By Burroughs GE, Connor TH, McDiarmid MA, Mead KR, Power LA, Reed LD, Coyle BJ, Hammond DR, Leone MM, Polovich M, Sharpnack DD. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-165.

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2. NIOSH [2004]. Preventing occupational exposure to antineoplastic and other hazardous drugs in health care settings (summary sheet). By Burroughs GE, Connor TH, McDiarmid MA, Mead KR, Power LA, Reed LD, Coyle BJ, Hammond DR, Leone MM, Polovich M, Sharpnack DD. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004-165a.
3. FEMA 427, Primer for Design of Commercial Buildings to Mitigate Terrorist Attacks, December 2003, Federal Emergency Management Agency (FEMA) Department of Homeland Security, Washington, DC, <http://www.wbdg.org/ccb/FEMA/fema427.pdf>.
4. Mead KR; Gressel M.G., Guidance for Protecting building environments from airborne chemical, biological, or radiological attacks, 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. 2002-139.
5. Mead KR, Miller AK, Flesch JP, Becks V, Dragon K, Kaelin S [Jun 1999]. Hazard Controls 30: Control of drywall sanding dust exposures. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 99-113..
6. Mead KR; Mickelsen RL “Engineering Control Guidelines for Hot Mix Asphalt Pavers” U.S. DHHS, PHS, CDC, NIOSH. DHHS (NIOSH) Pub. No. 97-105.
7. EPA/NIOSH [1998]. Building air quality action plan. U.S. Environmental Protection Agency; National Institute of Occupational Safety and Health; DHHS publication no. (NIOSH) 98-123, Washington, DC, 1998.
8. 15 NIOSH In-depth survey reports.

Other publications

1. Contributing author/committee member – ACGIH Industrial Ventilation Manual, 24th & 25th editions (1996-2004)
2. Project Advisor: FEMA 426, Reference Manual to Mitigate Potential Terrorist Attacks Against Buildings, December 2003, Federal Emergency Management Agency (FEMA) Department of Homeland Security, Washington, DC, <http://www.fema.gov/pdf/plan/prevent/rms/426/fema426.pdf>.

Presentations

33 presentations at conferences, meetings and symposia (1992- present)

Foreign language

Moderate fluency in Spanish

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BIOGRAPHICAL SKETCH

03 -27-2006

William E. Miller, M.S.	Mathematical and Health Statistician Tel: (304) 285 5772 E-mail: WMiller@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Central Michigan University, Mt. Pleasant, MI	B.A.	1974	Journalism
West Virginia University, Morgantown, WV	B.A.	1988	Mathematics
West Virginia University, Morgantown, WV	M.S.	1990	Applied Mathematics

Positions

1974-1985 Employed as a graphic designer and technical writer, as a machinist, and in other positions
1988-1990 Math Instructor, West Virginia University, Morgantown, WV
1991-Date Mathematical and Health Statistician, National Institute for Occupational Safety and Health (NIOSH), Division of Respiratory Disease Studies, Epidemiological Investigations Branch, Morgantown, WV

Honors

National Honor Society
Treasurer and public relations officer for non-profit organizations
Member of Pi Mu Epsilon (national math honorary)
Member of the CDC Statistical Advisory Group Subcommittee on Training and Seminars
Honorable Mention for Engineering and Physical Science Category of the 2000 Alice Hamilton Award
Honorable Mention for Biological Science Category of the 2002 Alice Hamilton Awards
NIOSH employee performance reviews of 'Outstanding' or 'Excellent'

Peer Reviewed Publications

1. Jacobsen, M.J., Miller, W.E., Parker, J.E.: A trial of additional composite standard radiographs for use with the ILO international classification of radiographs of pneumoconioses. Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Department of Health and Human Services (NIOSH) Publication HETA 93-0340, 1997.
2. Jacobsen, M.J., Miller, W.E., Parker, J.E.: New composite ('Quadrant') standard films for classifying radiographs of pneumoconioses. *Ind Health*, 36:380-383, 1998.
3. Linch, K.D., Miller, W.E., Althouse, R.B., Groce, D.W., Hale, J.M.: Surveillance of respirable crystalline silica dust using OSHA compliance data 1979-1995. *Am J Ind Med*, 34:547-558, 1998.
4. Vallyathan, V., Blake, T., Leonard, S., Greskevitch, M., Jones, W., Pack, D., Schwegler-Berry, D., Miller, W., Castranova, V.: In vitro toxicity of silica substitutes used for abrasive blasting. *Am J Ind Med*, Supplement 1, 158-160, 1999.
5. Miller, W.E.: A visualization of cross-over data using linear functions. *Statistics Med*, 18:975-987, 1999.
6. Keane, M.J., Stephens, J.W., Zhong, B.Z., Miller, W.E., Ong, T., Wallace, W.E.: A study of the effect of chrysotile fiber surface composition on genotoxicity in vitro. *J Toxicol Environ Health*, 57:529-541, 1999.
7. Gao, N., Keane, M.J., Ong, J. Ye, Miller, W.E., Wallace, W.E.: Effects of phospholipid surfactant on apoptosis induction by respirable quartz and kaolin in NR8383 rat pulmonary macrophages. *Toxicol Appl Pharmacol*, 175:217-225, 2001.

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8. Miller, W.E.: Revisiting the geometry of a ternary diagram with the half-taxi metric. *Math Geology*, 34 3:275-290, 2002.
9. Henneberger, P.K., Goe, S.K., Miller, W.E., Doney, B., Groce, D.W. Industries in the United States with airborne beryllium exposure and estimates of the number of current workers potentially exposed. *J Occup Environ Hyg*, 1, 648-659, 2004.
10. Liu, Y., Keane, M., Ensell, Miller, W.E., Kashon, M., Ong, T., Mauderly, J., Lawson, D., Gautam, M., Zielinska, B., Whitney, K., Eberhardt, J., Wallace, W.: In vitro genotoxicity of exhaust emissions of diesel and gasoline engine vehicles operated on a unified driving cycle. *J Environ Monit*, 7, pp. 60-66, 2005.
11. Harrison, J., Chen, J.-Q., Miller, W., Chen, W., Hnizdo, E., Lu, J., Chisholm, W., Keane, M., Gao, P., Wallace, W.: Risk of silicosis in cohorts of Chinese Tin and Tungsten miners and pottery workers (II): Workplace-specific silica particle surface composition. *Am J Ind Med*, 48, pp 10-15, 2005.

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BIOGRAPHICAL SKETCH

Steven E. Mischler, M.S.	Physical Scientist Tel: 412-386-6588 E-Mail: SMischler@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Kenyon College, Gambier OH	B.A.	1989	Biology
University of Michigan, Ann Arbor MI	M.S.	1991	Environmental Health Science

Positions

08/25/2002-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention, Pittsburgh, PA

Honors

2004 R&D 100 award, Personnel Dust Monitor

Other Experience and Professional Memberships

Industrial Hygienist in Training, American Board of Industrial Hygiene, 2000

Peer Reviewed Publications

1. S. E. Mischler and J. C. Volkwein . Differential Pressure as a Measure of Particulate Matter Emissions from Diesel Engines. *Environ. Sci. Technol*, Vol 39, No. 7, pg 2255-2261, Web Release Date: February 19, 2005.
2. Mischler SE, Bugarski A, and Schnakenberg G [2005]. Diesel Particulate Matter Control Technologies and Measurements in US Mines. Proceeding of 8th International Mine Ventilation Congress, Brisbane, Queensland, Australia, July 6-8 (in-print).
3. JC Volkwein, ED Thimmons, RJ Timko, EE Hall, SE Mischler, FN Kissell. State-of-the-Art in Monitoring Respirable Mine Aerosols. Proceeding of 8th International Mine Ventilation Congress, Brisbane, Queensland, Australia, July 6-8 (in-print).
4. Bugarski A, Schnakenberg G, Noll J, Mischler SE, Crum M, and Anderson R [2005]. Evaluation of Diesel Particulate Filter Systems and Biodiesel Blends in an Underground Mine. Society of Mining Engineers Transactions, Vol. 318.

NIOSH Publications and Technical Reports

1. Bugarski AD, Schnakenberg GH, Noll JD, Mischler S, Patts L, Hummer J, Vanderslice S, Effectiveness of Selected Diesel Particulate Matter Control Technologies for Underground Mining Applications: Isolated Zone Study, 2003. National Institute for Occupational Safety and Health, NIOSH RI 9667. May 2006.
2. Volkwein JC, Mischler SE, McWilliams L, Tuchman D, Vinson R.[2004] Performance of a new personal respirable dust monitor for mine use. National Institute for Occupational Safety and Health, NIOSH RI 9663, June 2004.

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Non-Peer Reviewed Proceedings

1. Bugarski AD, Schnakenberg GH, Noll JD, Mischler S, Patts L, Hummer J, Vanderslice S, Crum M, and Anderson R [2004]. The Effectiveness of Selected Technologies in Controlling Diesel Emissions in an Underground Mine – Isolated Zone Study at Stillwater Mining Company’s Nye Mine. Proceedings of Diesel Particulate in Mining Conference. Yeppoon, Queensland, Australia: Australian Journal of Mining.
2. Noll JD, Bugarski AD, Schnakenberg GH, Patts LD, and Mischler, S [2004]. Elemental Carbon Content in Diesel Particulate Matter and the Effects of Control Technologies on Particulate Emissions. Poster Session, AAAR 2004 Annual Conference, October 4 - 8, 2004, Atlanta, Atlanta GA.

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BIOGRAPHICAL SKETCH

Ernest S. Moyer, Ph.D.		Senior Research Chemist, LRB, DRDS, NIOSH Tel: (304) 285 5962 E-mail: emoyer@cdc.gov	
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Juniata College, Huntingdon, PA	B.S.	1967	Chemistry
West Virginia University, Morgantown, WV	Ph.D.	1970	Analytical Chemistry

Positions

1978-1980	Consumer Safety Officer, DHEW/Bureau of Drugs (HFD-333). Rockville, MD
1977-1978	Chemist, DHEW/FDA/Bureau of Drugs (HFD-140), Rockville, MD
1980-Date	Research Chemist, Department of Health and Human Services, National Institute for Occupational Safety and Health, Morgantown, WV

Honors

----	Received the John M. White award from the American Industrial Hygiene Association for excellence in respiratory protection for best 1987 paper on respiratory protection. Award recognized work which enhances the knowledge base in an area of need, fills a significant gap in current understanding, or provides new insight which will lead to improved employee protection.
1994	National Performance Review (Hammer Award) for contributions to building a government that works better and costs less. The area of recognition was the respirator certification program.
2004	Alice Hamilton Award for excellence in Occupational Safety and Health in the Educational materials category for DHHS (NIOSH) Publication No. 2003-136, "Guidance for Filtration and Air-Cleaning Systems to Protect Building Environments from Airborne Chemical, Biological, or Radiological Attacks."

Other Experience and Professional Memberships

2005	National Research Council – Research Advisor
2005	American Society of Agricultural Engineers
2005	American Filtration and Separations Society

Peer Reviewed Publications

1. Evaluation of Alternate HVAC Filters: Effect on Flow Rate, Capital Expense, Maintenance Costs, and Energy Consumption Considerations [Extended Abstract]. Abstracts of the 9th International Conference on Indoor Air Quality and Climate Monterey, CA, June 30-July5, 2002, Santa Cruz, CA. Levin H, ed. p. 76, 2002.
2. E.S. Moyer: Real-time HVAC filter efficiency testing using optical particle counters. Abstracts of the 9th International Conference on Indoor Air Quality and Climate Monterey, CA, June 30-July5, 2002, Santa Cruz, CA. Levin H, ed. p. 76, 2002.
3. E.S. Moyer: Filter efficiency of selected HVAC Filters [Abstract]. Abstracts of the 9th International Conference on Indoor Air Quality and Climate Monterey, CA, June 30-July5, 2002, Santa Cruz, CA. Levin H, ed. p. 76, 2002.
4. M. McCawley, S.B. Martin, Jr., E.S. Moyer, M. Berakis, J. Hornsby-Myers, M. Kent: Development of a filter assembly to match the deposition of ultra fine aerosol in the lung: a pilot study with beryllium; Proceedings of an International Symposium on Inhaled Particles Organized by the British Occupational Hygiene Society, Oxford University Press, Oxford, NY. Cambridge, England, Ogden T, Donaldson K., Cherry N., Eds. September 2-6, 2001. pp. 215-218, 2002.

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5. W.A. Heitbrink, E.S. Moyer, P.A. Jensen, D.S. Watkins, S.B. Martin, Jr.: Environmental agricultural cab filter efficiency and field evaluation. Proceedings of the American Filtration and Separations Society Indoor Air Quality/Filtration Conference (Cincinnati, OH, November 14-15, 2002), Falls Church, VA. 2002.
6. W.A. Heitbrink, E.S. Moyer, P.A. Jensen, D.S. Watkins, and S.B. Martin, Jr.: Environmental agricultural tractor cab filter efficiency and field evaluation. AIHAJ, 64:394-400, 2003.
7. A.B. Cecala, J.A. Organiscak, J.A. Zimmer, W.A. Heitbrink, E.S. Moyer, M. Schmitz, E. Ahrenholtz, C.C. Coppock, E.H. Andrews: Reducing enclosed cab drill operator's respirable dust exposure with effective filtration and pressurization techniques. JOEH, 2:54-63, 2005.
8. E.S. Moyer, W.A. Heitbrink, P.A. Jensen: Test for the integrity of environmental tractor cab filtration Systems. J Occup Environ Hyg, 2:516-523, 2005
9. S.B. Martin, B.R. Beamer, E.S. Moyer.: Evaluation of a high-efficiency filter-bank system. J Occup Environ Hyg, 3:204-213, 2006.

NIOSH Numbered Documents

1. B. Beamer, K.G. Crouch, S.B. Martin, Jr., E.S. Moyer, J.L. Topmiller: In-depth survey report: evaluation of local exhaust ventilation system for the 010 culling system at the United States postal service, Merrifield processing and distribution center, Merrifield, VA, October 9-10, 15, 17, 2002. US DHHS PHS CDC NIOSH NTIS Publication No. PB 279 14-a2, 2003.
2. G.S. Earnest, M.G. Gressel, R.L. Mickelsen, E.S. Moyer, L.D. Reed, C.J. Karwacki, R.W. Morrison, D.E. Tevault, W. Delp, A.K. Persily: Guidance for filtration and air-cleaning systems to protect building environments from airborne chemical, biological, or radiological attacks. DHHS (NIOSH) Publication No. 2003-136, 2003.
3. B. Beamer, S.B. Martin, Jr., E.S. Moyer, J.L. Topmiller, and K.G. Couch: In-depth survey report: Evaluation of local exhaust ventilation system for the advanced facer canceller system at the United States postal service, Cleveland processing and distribution center, Cleveland, OH, March 25-27, 2003. US DHHS PHS CDC NIOSH NTIS Publication No. PB 279 19-a, 2003.
4. D. Campbell, B. Beamer, S.B. Martin, Jr., J.L. Topmiller, K.G. Crouch, E.S. Moyer: In-depth survey report: evaluation of ventilation/filtration system for 010 culling system at the United States postal service, Cleveland processing and distribution center, Cleveland, OH, February 2004. US DHHS PHS CDC NIOSH NTIS Publication No. PB 279 ---. (Number has not yet been assigned.), 2004.

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BIOGRAPHICAL SKETCH

James Donald Noll, Ph.D.	Research Chemist Tel: 412-386-6828 E-Mail: JNoll@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Thiel College	B.A.	1991	Chemistry
University of South Carolina	Ph.D.	1996	Analytical Chemistry

Positions

08/2001- Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

2003 Gold Award for Excellence for "Rookie of the Year", Pittsburgh Federal Executive Board
2003 Bronze Award for Excellence for "Outstanding Team", Pittsburgh Federal Executive Board
2002 NIOSH Group Award for "Recognition for presenting a level headed and thoughtful analysis to the problems involving miner health and the control and measurement for exposures to diesel particulate matter."
2001 NIOSH Special Act for "Generation and Compilation of Pertinent Data Relating to the Diesel Engine Emissions Measurement and Analysis Program"

Other Experience and Professional Memberships

American Association for Aerosol Research
Technical Advisor, Rule making Committee, MSHA, 2001-present

Publications:

20 (12 peer review, 7 proceedings, and 1 NIOSH technical report) publications in the areas of diesel, air monitoring, nanotechnology, and analytical chemistry. Recent publications include:

Peer Reviewed Publications:

1. Bugarski, A.; G.H. Schnakenberg, J.D. Noll, S.E. Mischler, M. Crum, M. Anderson. Evaluation of Diesel Particulate Filter Systems and Biodiesel Blends in an Underground Mine. *Society of Mining and Metallurgical Engineers Transactions*, vol.318, 2005. *Idea 20 %, Analysis 30 %, Writing 10 %.*
2. Noll, J.D., R.J. Timko, L. McWilliams, P. Hall, R. Haney. Sampling Results of the Improved SKC Diesel Particulate Matter Cassette. *Journal of Occupational and Environmental Hygiene*, 2, 2005. *Idea 70 %, Analysis 90 % Writing 80 %.*
3. Noll, J.D., M. E. Birch. Evaluation of SKC DPM Cassettes for Monitoring Diesel Particulate Matter in Coal Mines. *J. Environ. Monit.*, 2004, 6, 973 - 978. *Ideas 70 %, Analysis 100 %, Writing 90 %.*
4. Birch, M.E.; J.D. Noll. Submicrometer elemental carbon as a selective measure of diesel particulate matter in coal mines. *Journal of Environmental Monitoring*. 2004, 6, 799-806. *Idea 30%, Analysis 10 %, Writing 10 %.*

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BIOGRAPHICAL SKETCH

6-8-2006

Larry D. Olsen, Ph.D.		Research Chemist Tel: (513) 533-8543 E-mail: ldo0@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Tomlinson College, Cleveland, TN	A.A.	1979	Natural Science
South Dakota School of Mines & Technology, Rapid City, SD	B.S.	1982	Chemistry
University of Wyoming, Laramie, WY	M.S.	1984	Analytical Chemistry
University of Wyoming, Laramie, WY	Ph.D.	1990	Analytical Chemistry

Positions

1991-present Research Chemist, Division of Applied Research and Technology, National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention (CDC),

Honors

1977-78 National Dean=s List
1978 Phi Theta Kappa
1988-90 U.S. Department of Education Patricia Roberts Harris Minority Fellowship
1990 Paul Stock Graduate Research Award and Graduate Travel Award from the University of Wyoming
1990 Society of Epsilon
1994-2006 Quality Step Increase or Outstanding Work Performance Award
1997 Group Special Act Award for methods developed for asphalt fume
1997-98 Division Top 10 Accomplishment
1998 Letter of Appreciation from NIOSH Director for efforts on project that was a finalist in the Innovations in Government Award
1999 Letter of Appreciation from NIOSH Director for efforts on project that won the National Occupational Research Agenda (NORA) Partnering Award for Worker Health and Safety
2000 Individual Special Act Award for organizing and chairing two public asphalt meetings and the development of several NIOSH documents on asphalt
2000 Coauthored a paper nominated by Division for the Shepard Award for Excellence in Science at CDC
2004 Division Top 10 Accomplishment

Other Experience and Professional Memberships

American Chemical Society
NIOSH Asphalt Document Development Team
NIOSH Asphalt Research Coordination Team
NIOSH/Industry Asphalt Data Evaluation Team
WHO/IPCS Eleventh Final Review Board for Concise International Chemical Assessment Documents (CICADs)
Scientific Advisory Committee for the Asphalt Roofing Environmental Council
Scientific Advisory Committee for the Asphalt Paving Environmental Council

Selected peer-reviewed publications

1. H-W Qian, W-Z Whong, L. Olsen, J. Nath, and T. Ong.: Induction of Micronuclei in V79 Cells by Fractions of Roofing Asphalt Fume Condensate. *Mut Res* 441(2):163-170, 1999.

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2. Larry B. Jaycox and Larry D. Olsen.: Determination of Total Sulfur Compounds and Benzothiazole in Asphalt Fume Samples by Gas Chromatography with Sulfur Chemiluminescence Detection. *Appl Occup Environ Hyg* 15(9):695-704, 2000.
3. Mark Toraason, Charles Hayden, Dave Marlow, Richard Rinehart, Patty Mathias, Dwight Werren, Larry D. Olsen, Charles E. Neumeister, Elaine S. Mathews, Kenneth L. Cheever, Kate Marlow, D. Gayle DeBord, Thomas M. Reid.: DNA strand breaks, oxidative damage, and 1-OH pyrene in roofers with coal-tar pitch dust and/or asphalt fume exposure. *Int Arch Occup Environ Health* 74:396-404, 2001.
4. Charles E. Neumeister, Larry D. Olsen*, and D. D. Dollberg.: Development of a Flow-Injection Fluorescence Method for the Estimation of Total Polycyclic Aromatic Compounds in Asphalt Fumes. *AIHAJ* 65(5):618-624, 2003.
5. Allison L. Tepper, Gregory A. Burr, H. Amy Feng, Mitchell Singal, Aubrey K. Miller, Kevin W. Hanley, and Larry D. Olsen. Acute Symptoms Associated with Asphalt Fume Exposure among Road Pavers. *Am J Ind Med* [In Press].

Government Publications

1. Larry Jaycox, Charles Neumeister, and Larry Olsen. Modified Analytical Method for Polycyclic Aromatic Compounds. In Aubrey K. Miller and Gregory A. Burr; NIOSH Health Hazard Evaluation Report; HETA 95-0307-2602; pp. 23-24, 1996.
2. Barry Belinky, Peter Eller, Robert Glaser, R. Alan Lunsford, Charles Neumeister, Larry D. Olsen (Team Leader), and Stanley Shulman. Total Particulate and Benzene Soluble Fraction (Asphalt Fume): Method 5042, (Approved draft). In Aubrey K. Miller and Gregory A. Burr; NIOSH Health Hazard Evaluation Report; HETA 97-0232-2674; pp. 27-33, 1998.
3. LD Olsen, BR Belinky, CE Neumeister, LB Jaycox, and DD Dollberg. Polynuclear Aromatic Hydrocarbons by HPLC: Method 5506. In: Eller PM, Cassinelli ME, Eds, NIOSH Manual of Analytical Methods, 4th Ed., 2nd Supplement. Cincinnati, OH: National Institute for Occupational Safety and Health, DHHS(NIOSH) 98-119, 1998.
4. Larry D. Olsen (Team Leader), Barry Belinky, Peter Eller, Robert Glaser, R. Alan Lunsford, Charles Neumeister, and Stanley Shulman. Benzene Solubles Fraction and Total Particulate (Asphalt Fume): Method 5042. In: Eller PM, Cassinelli ME, Eds, NIOSH Manual of Analytical Methods, 4th Ed., 2nd Supplement. Cincinnati, OH: National Institute for Occupational Safety and Health, DHHS(NIOSH) 98-119, 1998.
5. Mary Ann Butler, Gregory Burr, David Dankovic, R. Alan Lunsford, Aubrey Miller, Mimi Nguyen, Larry Olsen, Douglas Sharpnack, John Snawder, Leslie Stayner, Marie Haring Sweeney, Alexander Teass, Joann Wess, Ralph Zumwalde. Hazard Review: Health Effects of Occupational Exposure to Asphalt. Cincinnati, OH: National Institute for Occupational Safety and Health, DHHS (NIOSH) 2001-110, 2000.
6. NIOSH. Asphalt Fume Exposures during the Manufacture of Asphalt Roofing Products: Current Practices for Reducing Exposures. Cincinnati, OH: National Institute for Occupational Safety and Health, DHHS (NIOSH) 2001-127, 2001.
7. Gregory Burr, Allison Tepper, Amy Feng, Larry Olsen, Aubrey Miller. NIOSH Health Hazard Evaluation Report: Crumb-Rubber Modified Asphalt Paving: Acute Health Effects and Occupational Exposures. Cincinnati, OH: National Institute for Occupational Safety and Health, DHHS (NIOSH) HETA # 2001-0536-2864, 2002.
8. NIOSH. Asphalt Fume Exposures During the Application of Hot Asphalt to Roofs: Current Practices for Reducing Exposures. Cincinnati, OH: National Institute for Occupational Safety and Health, DHHS (NIOSH) Document No. 2003-112, 2003.
9. WHO/IPCS. Concise international chemical assessment document 59: Asphalt (Bitumen). Geneva, Switzerland: World Health Organization, International Programme on Chemical Safety. First draft by Joann Wess, Larry D. Olsen, and Marie Haring Sweeney. 2004.

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BIOGRAPHICAL SKETCH

John A. Organiscak, M.B.A.	Mining Engineer Tel: 412-386-6675 E-Mail: JOrganiscak@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
The Pennsylvania State University	B. S	1980	Mining Engineering
Duquesne University	M.B.A.	1990	

Positions

Respiratory Hazards Control Branch, Dust Control, Pittsburgh Research Laboratory, National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention, Pittsburgh, PA

Honors

- 1999 CDC/ATSDR Honor Award in the category, Collaborative Success, for NIOSH's Mine Safety and Health Strategic Planning Team Effort.
- 1999 Silver Award/Pittsburgh Federal Executive Board for AOutstanding Professional Employee (Medical/Scientific Field)
- 1992 Young Engineers Award/Coal Division SME-Pittsburgh Section for AEngineering Professionalism in the Coal Industry

Other Experience and Professional Memberships

Society for Mining, Metallurgy, and Exploration (SME)
ASAE S525 Standard for air quality in agricultural cabs, American Society of Agricultural Engineers, April 2002 to April 2007.

Peer Reviewed Publications

1. Organiscak JA, Page SJ [2005]. Development of a dust collector inlet hood for enhanced surface mine drill dust capture. International Journal of Surface Mining, Reclamation and Environment, Vol. 19, No. 1.
2. Organiscak JA, Reed WR [2004]. Characteristics of fugitive dust generated from unpaved mine haulage roads. International Journal of Surface Mining, Reclamation and Environment, Vol. 18, No. 4, pp. 236-252.
3. Organiscak JA, Cecala AB, Thimons ED, Heitbrink WA, Schmitz M, Ahrenholtz E [2004]. NIOSH/Industry collaborative efforts show improved mining equipment cab dust protection. SME Transactions 2003, Vol. 314, pp. 145-152, Society for Mining, Metallurgy and Exploration, Inc., Littleton, CO.
4. Organiscak, JA, Page SJ [2001]. Airborne dust liberation during coal crushing. Coal Preparation, Vol. 21, pp. 423-453.
5. Organiscak JA [2000]. Investigation of longwall face ventilation air-splitting methods for improved dust control. SME Transactions 1999, Vol. 306. pp. 86-94.
6. Organiscak, JA, Page SJ [1999]. Field assessment of control techniques and long-term dust variability for surface coal mine rock drills and bulldozers. International Journal of Surface Mining, Reclamation and Environment, Vol. 13, No. 4, pp 165-172.
7. Organiscak JA, Colinet JF [1999]. Influence of coal properties and dust control parameters on longwall respirable dust levels. Mining Engineering, Vol. 51, No. 9, pp. 41-48.

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NIOSH Publications and Technical Reports:

1. Organiscak JA, Page SJ [2005]. Improve drill dust collector capture through better shroud and inlet configurations. NIOSH Technology News No. 512, October 2005.
2. Organiscak JA, Page SJ, Cecala AB [2001]. Sweeping compound application reduces dust from soiled floors within enclosed cabs. NIOSH Technology News No. 486, March 2001.
3. Organiscak JA, Page SJ [2001]. Improved cab air inlet location reduces dust levels and air filter loading rates. NIOSH Technology News No. 485, February 2001.

Conference Proceedings:

Organiscak JA, Pollock DE [2005]. Development of a lower pressure water-powered spot scrubber for mining applications. 2005 SME Annual Meeting & Exhibit, Pre-print # 05-103.

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BIOGRAPHICAL SKETCH

Steven J. Page, M.S.	Research Physicist Tel: 412-386-6669 E-Mail: SJPage@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Southwest Missouri State University	B.S	1972	Physics
Kansas State University	M.S.	1975	Physics
16 hours toward PhD.			

Positions

10/01/96-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

U.S. Public Health Service Engineering Literary Award for publication ASilica... It=s not Just Dust@, June 9, 1998.

Federal Executive Board Gold Medalist, Outstanding Contribution to Science, May, 2000.

Peer Reviewed Publications:

92 publications in the areas of dust control, respirable coal dust generation mechanisms, quartz analysis. Recent publications include:

1. Page, SJ. and Organiscak JA. [2004]. Semi-empirical Model for Predicting Surface Coal Mine Drill Respirable Dust Emissions. *Int=l J for Surface Mining, Recl & Env.*, (18)1:42-59. Selected as PRL candidate for 2004 Shepard Award
2. Page, SJ. [2006]. Crystalline Silica Analysis: A Comparison of Calibration Materials and Recent Coal Mine Dust Size Distributions. *J. ASTM Int'l.* (3)1. Paper ID: JAI12236.
3. Page SJ [2003]. A Comparison of Coal Mine Dust Particle Size Distributions and Calibration Standards For Silica Analysis. *Am Ind Hyg Ass J*, 64:30-39. Selected as PRL candidate for 2003 Alice Hamilton Award
4. Page SJ, Organiscak JA [2002]. Predicting Airborne Dust Generation From Bituminous Coals Using Proximate Analysis. *Aero Sci & Tech*, 36(9):721-733. Selected as PRL candidate for 2002 Alice Hamilton Award
5. Page SJ, Organiscak JA, Mal T [2001]. The Effects of Low Quartz Mass Loadings and Minimum Spacial Variability on the Quartz Analysis of Surface Coal Mine Dust Samples. *Appl Occ & Env Hyg J*, 16(9):910-923. Selected as PRL candidate for 2002 Shepard Award
6. Organiscak JA, Page SJ [2001]. Airborne Dust Generation from Primary and Secondary Breakage of Coal. *Coal Prep*, 21:423-453.
7. Page SJ, Volkwein JC, Baron PA, Deye G. [2000]. Particulate Penetration of Porous Foam Used as a Low Flow rate Respirable Dust Size Classifier, *Appl Occ. & Env. Hyg J* 15(7):1-8.
8. Page SJ.[2000]. Relationships Between Electrostatic Charging Characteristics, Moisture Content, and Airborne Dust Generation for Subbituminous and Bituminous Coals, *Aero. Sci. & Tech.* 32:249-267 Apr. 2000.
9. Page SJ, Organiscak, JA [2000]. Suggestion of a Cause/Effect Relationship Between Coal Rank, Airborne Dust, and Incidence of Coal Workers Pneumoconiosis. *Am Ind Hyg Ass J*, 61(6):785-787.
Page SJ [2000]. Relationships Between Electrostatic Charging Characteristics, Moisture Content, and Airborne Dust Generation for Subbituminous and Bituminous Coals. *Aero Sci & Tech*, 32(4):249-267. 2001 Shepard Award nominee

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Trade Journal:

Reed, WR, Organiscak, JA, and Page, SJ. [2004]. New Approach Controls Dust at the Collector Dump Point. Eng. & Min. J., July, pp.29-31.

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BIOGRAPHICAL SKETCH

03 -26-2006

Bridget Teresa Palermo	Public Health Advisor Tel: (304) 285 5836 E-mail: BPalermo@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Saint Mary's School of Nursing		1968	Nursing

Positions

1969-1972	Supervisor, Monongalia General Hospital
1973-1981	Registered Nurse, Morgantown, ENT Clinic, Morgantown
1981-1988	Registered Nurse, West Virginia University Hospitals Outpatient Department
1988-1991	Administrative Nurse Manger West Virginia University Medical Corporation Morgantown, WV
1991-1994	Program Analyst, National Institute for Occupational Safety and Health, Morgantown, WV
1994-Date	Public Health Advisor, National Institute for Occupational Safety and Health, Morgantown, WV

Other experience

1995-1996	National Committee for Childhood Agricultural Injury Prevention
1995-1997	Center for Disease Control and Prevention, Tuberculosis Infection Control Guidelines Working Group
2005	Pandemic Flu Vaccine Prioritization Work group
2005	International Association of Fire Chiefs, Avian Flu Preparation and Response Task Force

Peer Reviewed Publications

1. Ehlers, J., T. Palermo: Community partners for healthy farming: involving communities in intervention planning, implementation and evaluation. *Am J Ind Med*, 1 suppl. 1 : 107-109, 1999.
2. Palermo, T., J. Ehlers: Coalitions: partnerships to promote agricultural health and safety. *J agric Safety Health*, 8 2: 161-174, 2002.
3. Chapman, L., A. Newenhouse, R. Meyer. A. Taveira, B. Karsh, J. Ehlers, T. Palermo: 2004 evaluation of an intervention to reduce musculoskeletal hazards among fresh market vegetable growers. *Appl ergonom*, 35 10:57-66, 2004.
4. Ehlers, J., T. Palermo: 2005 Community partners for health farming intervention research. *J agric Safety Health*, 1192: 1993-2003, 2005.

BIOGRAPHICAL SKETCH

03 -28-2006

Ju-Hyeong Park, Sc.D., M.P.H., C.I.H.		Senior Service Fellow Tel: (304) 285 5967 E-mail: JHyeong@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
Seoul National University, Korea	B.A.	1986	Agricultural Chemistry
Seoul National University School of Public Health, Seoul, Korea	M.P.H.	1988	Environmental Health Science
Harvard School of Public Health	M.S.	1995	Environmental Health
Harvard School of Public Health	Sc.D.	1999	Environmental Health

Positions

1986	Internship, Division of Air Pollution, Korean National Institute of Environment, Seoul, Korea
1986-1987	Internship, Environmental Microbiology Laboratory, Korean National Institute of Health, Seoul, Korea
1988-1990	Private third class, Korean Army
1990-1993	Industrial Hygienist, Department of Industrial Health, Korea Industrial Safety Corporation, Seoul, Korea
1994	Research Assistant, Environmental Science and Engineering Program, Harvard School of Public Health, Boston, MA
1995-1996	Research Fellow, Occupational Health Program, Harvard School of Public Health, Boston, MA
1999-2000	Post-doctoral Research Fellow, Occupational Health Program, Harvard School of Public Health, Boston, MA
2000	Research Associate, Occupational Health Program, Harvard School of Public Health, Boston, MA
2000-Date	Senior Service fellow, Field Studies Branch, Division of Respiratory Disease Studies, CDC/National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV

Other Experience and Professional Memberships

1986	Teaching Assistant, Department of Environmental Health, Seoul National University, School of Public Health, Seoul, Korea
1994-1997	Teaching Assistant, Department of Environmental Health, Harvard School of Public Health, Boston, MA
2002-Date	American Industrial Hygiene Association (AIHA)
2002-Date	American Board of Industrial Hygiene (ABIH)
2002-Date	ABIH Certified Industrial Hygienist (C.I.H.)
2003	Guest Speaker for the Occupational Medicine Resident Rounds, West Virginia University Medical School
2003	Guest lecturer for the class "Principles of Aerobiology," Mailman School of Public Health, Columbia University
2004-Date	Guest lecturer for the class "Introduction to Industrial Hygiene" and "Industrial Hygiene Air Sampling" West Virginia University College of Engineering and Mineral Resources.

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Peer Reviewed Publications

1. Milton D.K., Johnson D.K., Park J-H: Environmental endotoxin measurement: Interference and sources of variation in the limulus assay of house dust. *Am Ind Hyg Assoc J*, 58: 861-7, 1997.
2. Park J-H, Spengler J.D., Yoon D.W., Dumyahn T., Lee K.Y., Ozkaynak H.: Measurement of air exchange rate of stationary vehicles and estimation of in-vehicle exposure. *J Expo Anal Environ Epidemiol*, 8:65-78, 1998
3. Brand K.P., Jang C.J., Park J-H, Serrano P.I., Weker R.A., Lee K.Y., Yanagisawa Y.: Residual perchloroethylene in dry-cleaned acetate: the effect of pressing and extent of inter-dry-cleaner variability. *J Air Waste Manag Assoc*, 49:213-8, 1999.
4. Saraf A., Park J-H, Milton D.K., Larsson L.: Use of quadrupole GC-MS and ion trap GC-MS for determining 3-hydroxy fatty acids in settled house dust: relation to endotoxin activity. *J Environ Monit*, 8:65-78, 1999.
5. Park J-H, Spiegelman D.L., Burge H.A., Chew G.L., Milton D.K.: A longitudinal study of dust and airborne endotoxin. *Environ Health Perspect*, 108 11: 1023-1028, 2000.
6. Park J-H, Gold D.R., Spiegelman D.L., Burge H.A., Milton D.K.: Predictors of airborne endotoxin in the home. *Environ Health Perspect*, 109 8: 859-864, 2001.
7. Park J-H, Gold D.R., Spiegelman D.L., Burge H.A., Milton D.K.: House dust endotoxin and wheeze in the first year of life. *Am J Respir Crit Care Med*, 163:322-328, 2001.
8. Park J-H, Szponar B., Larsson L., Gold D.R., Milton D.K.: Characterization of lipopolysaccharides present in settled house dust. *Appl Environ Microbiol*, 70 1: 262-267, 2004.
9. Park J-H, Schleiff P.L., Attfield M.D., Cox-Ganser J.M., Kreiss K.: Building-related respiratory symptoms can be predicted with semi-quantitative indices of exposure to dampness and mold. *Indoor Air*, 15: 425-433, 2004. (Best paper award: among published in Indoor Air between 2002 and 2004)
10. Abraham J.H., Gold D.R., Dockery D.W., Ryan L., Park J-H, Milton D.K.: Within-home versus between-home variability of house dust endotoxin in a birth cohort. *Environ Health Perspect*, 113 11:1516-1521, 2005.
11. Park J-H, Cox-Ganser J., Rao, C., Kreiss, K. Fungal: Endotoxin measurements in dust associated with respiratory symptoms in a water-damaged office building. *Indoor Air*, (In Press), 2006.

Peer-Reviewed Conference Proceedings

1. Park J-H, Schleiff P.L., Attfield M.D., Cox-Ganser J.M., Kreiss K.: Semi-quantitative mold exposure index predicts building related respiratory symptoms; in: Indoor Air 2002: Proceedings of the 9th international conference on indoor air quality and climate, Vol V, Monterey, California. H. Levin ed. *Indoor Air*, pp27-32 (Featured paper), 2002.
2. Park J-H, Szponar B., Larsson L., Gold D.R., Donald K., Milton D.K.: Characterization of lipopolysaccharides in settled house dust. American Industrial Hygiene Conference and Exhibition (AIHCE), San Diego, CA, 2002.
3. Schleiff P.L., Park J-H, Kreiss K.: Building-related respiratory disease in college employees. American Thoracic Society, Seattle, WA, 2003.
4. Park J-H, Cox-Ganser J.M., Rao C.Y., Choe K.T.: Variability of airborne fungal measurements at an office building in the eastern United States. AIHCE meeting, Atlanta, GA, 2004.

BIOGRAPHICAL SKETCH

07-06-07

Robert Park, M.S.	Research Epidemiologist Tel: E-Mail:		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
MIT, Cambridge, Mass	B.S.	1964	Physics
Harvard, Cambridge, Mass	M.A.	1967	Biophysics
Harvard School of Public Health Boston, Mass	M.S.	1981	Occupational Health and Biostatistics

Positions

1971 – 1977	Clinical Research Associate - Fisons Corporation, Pharmaceutical Div., Bedford, Mass 01730.
1978 – 1979	Project Statistician - Simmons College School of Social Work, Boston, Mass 02116.
1980	Research Associate - Equifax Inc., Health Systems Division, Reading, Mass 01867.
1980	Occupational Health Intern - Oil, Chemical and Atomic Workers, International Union, 62 Mt. Auburn Street, Watertown, Mass 02172.
1981 – 1998	Project Epidemiologist - United Auto Workers, International Union, Health and Safety Department, Detroit, Michigan 48214.
1998	Research Epidemiologist - Washington State Department of Labor and Industries, SHARP Program, Tumwater, WA 98501.
1998 - Present	Research Epidemiologist - National Institute for Occupational Safety and Health (NIOSH), Education and Information Div., Risk Evaluation Branch, Cincinnati, OH 45226.

Peer Reviewed Publications

1. Silverstein M, Maizlish N, Park R, Mirer F. Mortality among workers exposed to coal tar pitch volatiles and welding emissions: an exercise in epidemiologic triage. *Am J Public Health*, 75:1283-1287, 1985.
2. Silverstein M, Maizlish N, Park R, Silverstein B, Brodsky L, Mirer F. Mortality among ferrous foundry workers. *Am J Ind Med*, 10:27-43, 1986.
3. Butler WB, Park RM. Use of the logistic regression model for the analysis of proportionate mortality data. *Am J Epidemiology*, 125: 515-523, 1987.
4. Park RM, Wegman DJ, Silverstein MA, Maizlish NA, Mirer F. Causes of death among workers in a bearing manufacturing plant. *Am J Ind Med*, 13:569-580, 1988.
5. Silverstein M, Park R, Marmor M, Maizlish N, Mirer F. Mortality among bearing plant workers exposed to metalworking fluids and abrasives. *J Occup Med*, 30:706-714, 1988.
6. Park RM, Silverstein MA, Green MA, Mirer FE. Brain cancer mortality at a manufacturer of aerospace electromechanical systems. *Am J Ind Med*, 17: 537-552, 1990.
7. Park RM, Nelson NA, Silverstein MA, Mirer FE. Use of medical insurance claims for surveillance of occupational disease. An analysis of cumulative trauma in the auto industry. *J Occup Med*, 34:731-737, 1992.
8. Nelson NA, Park RM, Silverstein MA, Mirer FE. Cumulative Trauma Disorders of the Hand and Wrist in the Auto Industry. *Am J Public Health*, 82:1550-1552, 1992.
9. Park R, Krebs J, Mirer F. Mortality at an Automotive Stamping and Assembly Complex. *Am J Ind Med*, 26:449-463, 1994.

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10. Krebs JM, Park RM, Boal WL. A neurological disease cluster at a manufacturing plant. *Arch Environ Health*, 50:190-195, 1995.
11. Park RM, Krebs JM, Mirer FA. Occupational disease surveillance using disability insurance at an automotive stamping and assembly complex. *J Occup Environ Med*, 38:1111-1123, 1996.
12. Park RM. The healthy worker survivor effect and mortality at two automotive engine manufacturing plants. *Am J Indust Med* 30:655-663, 1996.
13. Park RM, Mirer FE. A survey of mortality at two automotive engine manufacturing plants. *Am J Indust Med* 30:664-673, 1996.
14. Rice FL, Park R, Stayner L, et al. Crystalline silica exposure and lung cancer mortality in diatomaceous earth industry workers: a quantitative risk assessment. *Occup Environ Med*, 58:38-45, 2001.
15. Park RM. Medical insurance claims and surveillance for occupational disease: analysis of respiratory, cardiac, and cancer outcomes in auto industry tool grinding operations. *J Occup. Environ Med*, 43:335-346, 2001.
16. Park RM. Mortality at an automotive engine foundry and machining complex. *J Occup Environ Med*, 48:483-493, 2001.
17. Bena JF, Bailer AJ, Park RM, Halperin WE, A graphical analysis of mortality rates and years of potential life lost. *Human and Ecological Risk Assessment*, 7:1843-1857, 2001.
18. Park R, Rice F, Stayner L, Smith R, Gilbert S, Checkoway H. Exposure to crystalline silica, silicosis, and lung disease other than cancer in diatomaceous earth industry workers: a quantitative risk assessment. *Occup Environ Med*, 59:36-43, 2002.
19. Park RM, Bailer AJ, Stayner LT, Halperin W, Gilbert SJ. An alternate characterization of hazard in occupational epidemiology: years of life lost per years worked. *Am J Ind Med*, 42:1-10, 2002.
20. Park RM. Hazard identification in occupational injury: reflections on standard epidemiologic methods. *Int J Occup Environ Health*, 8:354-362, 2002.
21. Bailer AJ, Bena JF, Stayner LT, Halperin W, Park RM. External cause-specific summaries of occupational fatal injuries. Part I: an analysis of rates. *Am J Ind Med*, 43:237-250, 2003.
22. Bailer AJ, Bena JF, Stayner LT, Halperin, W, Park RM. External cause-specific summaries of occupational fatal injuries. Part II: an analysis of years of potential life lost. *Am J Ind Med*, 43:251-261, 2003.
23. Park RM, Bena JF, Stayner LT, Smith RJ, Gibb HJ, Lees PSJ. Hexavalent chromium and lung cancer in the chromate industry: a quantitative risk assessment. *Risk Analysis*, 24:1099-1108, 2004.
24. Park RM, Schulte PA, Bowman JD, Walker JT, Bondy SC, Yost MG, Touchstone JA, Dosemeci M. Potential occupational risks for neurodegenerative diseases. *Am J Ind Med*, 48:63-77, 2005.
25. Park, R.M., Ahn, Y.-S., Stayner, L.T., Kang, S.-K., Jang, J.-K. Mortality of iron and steel workers in Korea. *Am J Ind Med*, 48:194-204, 2005.
26. Park, R.M., Stayner, L.T. A search for thresholds and other non-linearities in the relationship between hexavalent chromium and lung cancer. *Risk Analysis*, 26:79-88, 2006.
27. Wheeler MW, Park RM, Bailer AJ. Comparing median lethal concentration values using confidence interval overlap or ratio tests. *Environ Toxicol Chem*, 25:1441-1444, 2006.
28. Park RM, Bowler RM, Eggerth DE, Diamond E, Spencer KJ, Smith D, Gwiazda R. Issues in neurological risk assessment for occupational exposures: The Bay Bridge welders. *NeuroToxicology*, 27:373-384, 2006.
29. Ahn YS, Park RM, Stayner LT, Kang SK, Jang JK. Cancer morbidity in iron and steel workers in Korea. *Am J Ind Med*...(accepted for publication 5-2-06)

Book Chapters and Invited Reviews

Park R. Health and disability insurance. in: Workplace Health Surveillance: An Action-Oriented Approach. Maizlish N, ed. New York: Oxford University Press, 2000.

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BIOGRAPHICAL SKETCH

Larry D. Patts	Physical Scientist, RHCBC, Diesel Team Tel: 412-386-6852 E-Mail: LPatts@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Saint Vincent's College	B.A.	1970	Mathematics
Carnegie-Mellon University	B.S.	1971	Metallurgy and Materials Science

Positions

08/26/2001- Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Other Experience and Professional Memberships

American Society for Metals

National Committee Assignments:

American Mining Congress-Diesel Equipment Committee, Noise and Vibration Committee

National Safety Council-Noise Committee Chairman

National Fire Protection Association-Committee on Coal Mine Fire Protection

NIOSH Publications and Technical Reports:

1. Bugarski A.D., G.H. Schnakenberg, J.D. Noll, S.E. Mischler, L.D. Patts, S.D. Vanderslice, M. Crum, and R. Anderson R [2004]. The Effectiveness of Selected Technologies in Controlling Diesel Emissions in an Underground Mine-Isolated Zone Study at Stillwater Mining Company's Nye Mine. Proceedings of Diesel Particulate Mining Conference, Yippons, Queensland, Australia, June 8-9, 2004, 86 pages "NIOSH Publications and Technical Reports"
2. "Compliance Problems with the Coal Mine Lighting Law" –Mining Engineering

Magazine Article:

"Visual Observation of Float Coal Dust Deposition-The Problems"- Coal Age Magazine

BIOGRAPHICAL SKETCH

03-28-2006

Terri A. Pearce, Ph.D.		Senior Service Fellow/Industrial Hygienist Tel: (304) 285 6211 E-mail: TPearce@cdc.gov	
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Central Oklahoma, Edmond OK	B.S.	1991	Biology (Chemistry Minor)
University of Oklahoma Health Sciences Center, Oklahoma City, OK	Dual M.S.	1994	Industrial Hygiene & Environmental Management
University of Oklahoma Health Sciences Center, Oklahoma City, OK	Ph.D.	1999	Industrial Hygiene (Toxicology Minor)
University of Iowa, Iowa City, IA	Postdoctoral Fellow	2000	Inhalation Toxicology

Positions

1995-1999	Environmental Protection Agency Science to Achieve Results (STAR) Fellow, University of Oklahoma Health Sciences Center, Oklahoma City, OK
1995-1999	Vice-President/Industrial Hygienist, Pearce Shaver Environmental, Inc., Oklahoma City, OK
1999-2000	National Research Service Award Postdoctoral Fellow, Department of Occupational and Environmental Health, Univ. of Iowa, Iowa City, IA
2001-2002	President/Industrial Hygienist, Indoor Environment Inc., Oklahoma City, OK
2002-2003	Senior Industrial Hygienist, Enercon Services Inc., Oklahoma City, OK
2003-Date	Senior Service Fellow/Industrial Hygienist, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV

Other Experience and Professional Memberships

2002-Date	American Industrial Hygiene Association
-----------	---

Peer Reviewed Publications

1. Fechter L.D., Liu Y., Pearce T.A. : Cochlear protection from carbon monoxide exposure by free radical blockers in the guinea pig. *Toxicol Appl Pharmacol*, 142 1:47-55, 1997.
2. Johnson D.L., Pearce T.A. : Efficiency of a low-energy wetted-surface multi-annulus denuder sampler for viable and non-viable aerosol collection. *Aerosol Sci Technol*, 28:269-279, 1998.
3. Johnson D.L., Carlson K.D., Pearce T.A., Esmen N.A., Thomas B.N.: Effects of nebulization time and pressure on lipid microtubule suspension and aerosol. *Aerosol Sci Technol*, 30 2:211-222, 1999.
4. Johnson D.L., Pearce T.A., Esmen N.A.: The effect of phosphate buffer on aerosol size distribution of nebulized gram-positive and gram-negative bacteria. *Aerosol Sci Technol*, 30 2:202-210, 1999.
5. Johnson D.L., Esmen N.A., Carlson K.D., Pearce T.A., Thomas B.N.: Aerodynamic behavior of lipid microtubule aerosols. *J Aerosol Sci*, 31 2:181-188, 2000.
6. Weschler C.J., Wells J.R., Poppendieck D., Hubbard H., Pearce T.A. : Indoor chemistry and health – a workshop summary. *Environ Health Perspect*, 114 3:442-446, 2006.

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Technical Reports

1. NIOSH 2004. Hazard evaluation and technical assistance report: Teletech, Morgantown, West Virginia. By Pearce T.A. Morgantown, WV: U.S Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No: HETA 2004-0195-2951, 2004.
2. NIOSH 2005. Hazard evaluation and technical assistance report: West Virginia University, Robert C. Byrd Health Sciences Center, Morgantown, West Virginia. By Mosser J., Pearce T.A. Morgantown, WV: U.S Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No: HETA 2004-0344-2954, 2005.
3. NIOSH 2005. Hazard evaluation and technical assistance report: Cherokee County Fire Station 21, Ball Ground, Georgia. Pearce T.A., Kitt M., Vingle M.R. Morgantown, WV: U.S Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No: HETA 2005-0167-2983, 2005.
4. NIOSH 2005. Hazard evaluation and technical assistance report: Indian River Memorial Hospital, Center for Emotional and Behavioral Health, Vero Beach Florida. By Kanwal R., Pearce T. Morgantown, WV: U.S Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No: HETA 2005-0167-2983, 2005.
5. NIOSH 2005. Hazard evaluation and technical assistance report: Liberty Central School District, Liberty, New York. By Harrison J.M., Pearce T.A. Morgantown, WV: U.S Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, NIOSH Report No: HETA 2005-0033-2984, HETA 2005-0234-2984, 2005.

Presentations

1. Measurement of Water Vapor Sorption by Bacteria: A New Near Real-time Method American Association of Aerosol Research Conference, October, 2002.
2. Influence of Bioaerosol Particle Characteristics on Impinger Collection Efficiency. American Industrial Hygiene Conference and Exhibition, June 2-7, 2001.
3. Laboratory Comparison of Three Commercially-Available Bioaerosol Impinger Samplers. American Association of Aerosol Research Conference, October, 2000.
4. Bioaerosols: What are they and why are we interested? Bioaerosols in Non-IAQ Environments, and Data Interpretation. Oklahoma American Industrial Hygiene Association Local Section Spring Conference April 25, 2000 (Invited).
5. Measurement of Water Activity in Selected Bacteria. Seminar Series, Dept. of Occupational and Environmental Health, University of California at Los Angeles December 2, 1999 (Invited).

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BIOGRAPHICAL SKETCH

Stephanie M. Pendergrass, M.S.		Research Chemist Tel: (513)-841-4359 Email: smp5@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(S)	FIELD OF STUDY
McMurry College, Abilene, TX.	B.S. (2)	1980	Biology, Chemistry
Texas Tech University, Lubbock, TX	M.S.	1984	Chemistry
Collin County Jr. College, Plano, TX		1988	Microbiology

Positions

1981-1984	Research/Teaching Assistant, Chemistry Department, Texas Tech University
1985-1988	Senior Chemist/Environmental Safety Director, Hardcast, Inc.
1989	Sanitary Coatings Research Chemist, BASF Corp.
1989-1995	Chemist, Method Developments Section, CDC/NIOSH/DPSE/MRSB
1995-2000	Research Chemist, Measurements Support Section, CDC/NIOSH/DPSE/MRSB
2000-Present	Research Chemist, Analytical Chemistry Section, CDC/NIOSH/DART/CEMB
2005-Present	Project Officer, Comprehensive Analytical Services Contract, CDC/NIOSH/DART/CEMB

Honors

1992	Superior Work Performance
2001	On The Spot Award
2002	On The Spot Award
2004	DART Safety Manual
2005	On The Spot Award
2005	Michigan Industrial Hygiene Society – Best Paper

Selected Peer-Reviewed Publications

1. Kiefer, M., Bresler, F., Salisbury, S., and Pendergrass, S.M., Investigation of d-Limonene Use During Aircraft Maintenance Degreasing Operations, *Appl. Occup. Environ. Hyg. J.* 9(5):303-311 (1994).
2. Pendergrass, S.M., An Approach for Estimating Workplace Exposure to o-Toluidine, Aniline, and Nitrobenzene, *Am. Ind. Hyg. Assoc. J.* (55):733-737 (1994). Pendergrass, S.M., An Alternative Method for the Analysis of Phenol and o-, m-, and p Cresol by Capillary GC-FID, *Am. Ind. Hyg. Assoc. J.* (55): 1051-1054 (1994).
3. Pendergrass, S.M., Jensen, P.A., Application of the Gas Chromatography-Fatty Acid Methyl Ester System for the Identification of Environmental and Clinical Isolates of the Family Micrococcaceae, *Appl. Occup. Environ. Hyg.* 12(8):543-546 (1997).
4. Schafer, M.P., Pendergrass, S.M., Fernback, J., The Use of Avirulent M. Tuberculosis H37Ra for the Development of a DNA Analytical Method for Airborne Pathogenic M. Tuberculosis (TB), *presented at American Association for Aerosol Research*, (October 1997).
5. Pendergrass, S.M., Determination of Glycols in Air: Development of Sampling and Analytical Methodology and Application to Theatrical Smokes, *Am. Ind. Hyg. J.*, 60(4):452-457 (1999).
6. Pendergrass, S.M., Krake, Ann M., Jaycox, Larry B., Development of a Versatile Method for the Detection of Nicotine in Air, *Am. Ind. Hyg. Assoc. J.*, 61(4):469-72 (2000).
7. Kullman, G., Bolystein, R., Piacitelli, C., Pendergrass, S., Jones, W., Hubbs, A., and Kreiss, K., Respiratory Exposures from Microwave Popcorn Packaging, *AICHE Conference*, San Diego, CA, (June 1-2, 2002).

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8. Pendergrass, S.M., Method Development for the Determination of Diacetyl and Acetoin at a Microwave Popcorn Plant, *Environ. Sci. Technol. J.*, 38(3):858-861 (2004).
9. Kullman, G., Boylstein, R., Pendergrass, S.M., et al, Characterization of Respiratory Exposures at a Microwave Popcorn Plant, *JOEH* 2(3):169-178 (2005).
10. Pendergrass, S.M., Ernst, J.L. and Dollberg, Donald D., NMAM Methods Update: A Laboratory Response to Concerns About Technologically Outdated Methods, *J. Occup. Envir. Hyg.*, (July 2006).

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BIOGRAPHICAL SKETCH			
Edward L. Petsonk		Team Leader, Workforce Screening and Surveillance Team SB, DRDS, NIOSH - (304) 285 5754 - elp2@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Cornell University, Ithaca, NY	A.B. Summa Cum Laude	1969	Physics
McGill University, Faculty of Medicine, Montreal, PQ	M.D., C.M.	1973	Medicine
Case-Western Reserve University, Metropolitan General Hospital, Cleveland, OH	Internship	1974	Internal Medicine
McGill University/Jewish General Hospital, Montreal, PQ	Resident/Chief Resident	1976-9	Internal Medicine Pulmonary Diseases
National Institute for Occupational Safety and Health/West Virginia University, Morgantown, WV	Fellowship	1979-81	

Positions

Clinical Director, 1975-76, Field Health Director, 1974-75

US Public Health Service, Indian Health Service Hospital, Parker, AZ

Medical Officer, 10/79 - 6/81, Clinical Investigations Branch, DRDS, NIOSH, Morgantown, WV

Assistant Professor of Medicine, Pulmonary Disease Section, Department of Medicine 1981-84

West Virginia University School of Medicine, Morgantown, WV

Associate Professor of Medicine, Acting Chief, Pulmonary Disease Section, Department of
Medicine 1984-86

Chief, Clinical Section, 4/89 - 5/99, Clinical Investigations Branch, DRDS, NIOSH, Morgantown,
WV

Adjunct Professor of Medicine, 7/98 – present, Department of Medicine, West Virginia University
School of Medicine, Morgantown, WV

Senior Medical Officer and Team Leader, 6/99 to Present, Medical Screening and Workforce
Surveillance, Surveillance Branch, DRDS, NIOSH, Morgantown, WV

Honors

Phi Beta Kappa, Cornell University

University Scholar, McGill University

Fellow, American College of Physicians

Nominee, 1987 Charles C. Shepard Science Award, Centers for Disease Control and Prevention

Nominee, 1987 and 1994 Alice Hamilton Award for Science and Occupational Safety and Health, National
Institute for Occupational Safety and Health

Nominee, 1989 Joseph Mountin Poster Award, Centers for Disease Control and Prevention/Agency for Toxic
Substances and Disease Registry

Nominee, 2001 Charles C. Shepard Science Award, Centers for Disease Control and Prevention

Honorable mention, 2006, Statistical Science Award, CDC and ATSDR

United States Public Health Service Commendation Medal, 1991

Centers for Disease Control Certificate of Appreciation, 1991

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United States Public Health Service Unit Commendations, 1991, 1992, 1993, 1995, 1998

United States Public Health Service Achievement Medal, 1994

United States Public Health Service Bicentennial Unit, Commendation, 1998

United States Public Health Service Outstanding Unit, Commendation, 2002

Diplomate, American Board of Internal Medicine 1978, Pulmonary Disease Subspecialty 1980

Selected Peer Reviewed Publications and Book Chapters (2002-2006: from a total of 74 since 1981)

1. Wang ML, Petsonk EL. Symptom onset in the first two years of employment at a wood products plant using diisocyanates: Some observations relevant to occupational medical screening. *American Journal of Industrial Medicine* 2004;46:226-233.
2. Wang ML, Petsonk EL. Repeated spirometry measurements over 6 to 12 months: what change is abnormal? *J Occup Environ Med* 2004;46(6):591-595.
3. American Thoracic Society Statement: Guidelines for Assessing and Managing Asthma Risk at Work, School, and Recreation. *Am J Respir Crit Care Med* 2004;169:873-881.
4. Antao VC, Petsonk EL, Sokolow LZ, Wolfe AL, Pinheiro GA, Hale JM, Attfield MD. Rapidly Progressive Coal Workers' Pneumoconiosis In The United States: Geographic Clustering And Other Factors. *Occupational and Environmental Medicine* 2005;62:670-674.
5. Petsonk L, Levy BS. Latex Allergy. In: Levy BS, Wagner GR, Rest KM, Weeks JL, Editors. *Preventing Occupational Disease and Injury*. Washington: American Public Health Association, 2005. p. 298-301.
6. Peng Kai-liang, Wang Mei-lin, DU Qin-guo, LI Ya-dong, Attfield Michael D, Han Gui-hai, Petsonk Edward L. , LI Shao-kui, WU Zhi-en. Study on early change of lung function among new coal miners. *Chinese Journal of Industrial Hygiene and Occupational Diseases* 2005;2395:105-8.
7. Wang M-L, Wu Z-E, Du Q-G, Petsonk EL, Peng K-L, Li Y-D, Li S-K, Han G-H, Attfield MD. A prospective cohort study among new Chinese coal miners – The early pattern of lung function change. *Occupational and Environmental Medicine* 2005;62:800-5.
8. Wang ML, Petsonk EL, Wu ZE, Du QG, Peng KL, Li YD, Li SK, Han GH, and Attfield MD: Rapid decline in FEV1 and the development of bronchitic symptoms among new Chinese coal miners. *Proceeding of 10th International Conference on Occupational Respiratory Diseases in Beijing, China, April 19-22, 2005*.
9. Petsonk EL, Attfield MD. *Respiratory Diseases of Coal Miners*. In: Rosenstock L, Cullen M, Brodtkin CA, Redlich CA, editors. *Textbook of Clinical Occupational and Environmental Medicine, Second Edition*. Philadelphia: W.B. Saunders Company; 2005. p. 393-407.
10. Wang M-L, Avashia BH, Petsonk EL. Interpreting periodic lung function tests in individuals: The relationship between 1- to 5-year and long-term FEV1 changes. *CHEST* 2006;130:493-499.
11. Hnizdo E, Glindmeyer HW, Petsonk EL, Enright P, Buist AS. Case Definitions for Chronic Obstructive Pulmonary Disease. *COPD: Journal of Chronic Obstructive Pulmonary Disease* 2006;3(2):95-100.
12. Hnizdo E, Sircar K, Glindmeyer HW, Petsonk EL. Longitudinal Limits of Normal Decline in Lung Function in an Individual. *JOEM* 2006;48(6):625-634.
13. Almaguer D, Ernst MK, Benaise LG, Streicher RP, Mead KR, Lofgren DJ, Bonauto D, Garcia A, BerryAnn R, Filios MS, Petsonk EL. [September 2006] NIOSH Alert. Preventing Asthma and Death from MDI Exposure During Spray-on Truck Bed Liner and Related Applications. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. DHHS (NIOSH) Publication No. 2006-149.
14. Centers for Disease Control and Prevention (Antao VC, Petsonk EL, Attfield MD.) Advanced Cases of Coal Workers' Pneumoconiosis --- Two Counties, Virginia, 2006. *MMWR - Morbidity & Mortality Weekly Report* 2006;55(33)909-13.

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Invited Editorial

Attfield MD, Petsonk EL. Proficiency, procedures, and "B" readers - classifications of radiographs for pneumoconiosis. Acad Radiol 2004;12:1323-1325.

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BIOGRAPHICAL SKETCH

03-29-2006

Chris A. Piacitelli, M.S.	Industrial Hygienist Tel: (304) 285 5835 E-mail: CPiacitelli@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Carroll College, Helena, MT	B.A.	1983	Mathematics
Montana College of Mineral Science and Technology, Butte, MT	B.S.	1984	Mining Engineering
West Virginia University, Morgantown, WV	M.S.	1997	Occupational Health and Safety Engineering

Positions

1981-1982	Engineer Technician, Department of the Army (Civil Service), Fort Lewis, WA
1983	Engineer (Commissioned Officer Student Training and Externship Program), Indian Health Service, Lawton, OK
1984	Design Staff Engineer, Indian Health Service, Oklahoma City, OK
1984-1986	Field Engineer, Indian Health Service, Shawnee, OK
1986-1991	Mining Industrial Hygiene Engineer (Occupational Safety & Health Specialist), National Institute for Occupational Safety and Health, Environmental Investigations Branch, Morgantown, WV
1991-1999	Industrial Hygiene Engineer (Occupational Safety & Health Specialist), National Institute for Occupational Safety and Health, Clinical Investigations Branch, Morgantown, WV
1999-Date	Industrial Hygiene Engineer (Occupational Safety & Health Specialist), National Institute for Occupational Safety and Health, Field Studies Branch, Morgantown, WV

Honors

1987	PHS Unit Commendation
1988	PHS Hazardous Duty Service Ribbon
1990	PHS Unit Commendation
1993	PHS Citation
1994	PHS Unit Commendation
1996	PHS Unit Commendation
1997	PHS Outstanding Unit Citation
1998	PHS Bicentennial Unit Commendation
1999	PHS Outstanding Unit Citation
2002	PHS Crisis Response Service Award
2002	PHS Outstanding Unit Citation
2002	PHS Unit Commendation
2002	CDC Certificate of Appreciation, Anthrax Response
2003	Society of American Military Engineers Cumming Award
2004	PHS Commissioned Corps Training Ribbon
2004	PHS Achievement Medal

Other Experience and Professional Memberships

OSHA HAZWOPER (Hazardous Waste Operations & Emergency Response)- certified
Certified Industrial Hygienist (CIH)
Diplomate, American Academy of Industrial Hygiene (AAIH)

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Member, Society of American Military Engineers (SAME), Reserve Officers Association (ROA), American Conference Governmental Industrial Hygienists (ACGIH), and PHS Commissioned Officers Association (COA)

Peer Reviewed Publications

1. Kullman G.J., Piacitelli C.A., Parker J.E., Flesch J.: Hazard / controls: Control of organic dusts from bedding choppers in dairy barns. *Appl Occup Environ Hyg*, 14 11:732-733, 1999.
2. Porter D.W., Castranova V., Mercer R., Robinson V., Scabilloni J., Hubbs A., Goldsmith T., Schwegler-Berry D., Battelli L., Washko R., Burkhardt J., Piacitelli C., Whitmer M., Jones W.: Acute inflammatory reaction in rats after intratracheal instillation of material collected during nylon flocking. *J Toxicol Environ Health*, 57:25-45, 1999.
3. Burkhardt J.E., Piacitelli C.A., Schwegler-Berry D., Jones W.G.: Environmental study of nylon flocking process. *J Toxicol Environ Health*, 57:1-23, 1999.
4. Kreiss K., Daroowalla F., Wang M.L., Piacitelli C.A., Jones W.G., Attfield M.D.: Flock workers' exposures and respiratory symptoms in five plants; in: Abstracts of the 12th Annual Congress of the European Respiratory Society. Stockholm, Sweden: *Eur Respir J*, Suppl. p. 2022. Sept. 2002.
5. Jernigan D.B., Raghunathan P.L., Bell B.P., Brechner R., Bresnitz E.A., Butler J.C., et al: Investigation of bioterrorism related anthrax, United States, 2001: epidemiologic findings. *Emerg Infect Dis*, 8 10:1019-1028, 2002.
6. Dewan P.K., Fry A.M., Laserson K., Tierney B.C., Quinn C.P., Hayslett J.A., et al: Inhalational anthrax outbreak among postal workers, Washington, D.C., 2001. *Emerg Infect Dis*, 8 10:1066-1072, 2002.
7. Sanderson W.T., Stoddard R.R., Echt A.S., Piacitelli C.A., Kim D., Horan J., Davies MM., McCleery RE., Muller P., Schnorr T.M., Ward E.M., Hales T.R.: Bacillus anthracis contamination and inhalational anthrax in a mail processing and distribution center. *J Appl Microbiol*, 96:1048-1056, 2004.
8. Kullman G., Boylstein R., Jones W., Piacitelli C., Pendergrass S., Kreiss K.: Characterization of respiratory exposures at a microwave popcorn plant with cases of bronchiolitis obliterans. *J Occup Environ Hyg*, 2:169-178, 2005.
9. Kanwal R., Kullman G., Piacitelli C., Boylstein R., Sahakian N., Martin S., Fedan K., Kreiss K.: Evaluation of Flavorings-Related Lung Disease Risk at Six Microwave Popcorn Plants. *J Occup Environ Med*. 48 2:149-157, 2006.

NIOSH Numbered Documents

1. Kullman G.J., Jones W.J., Piacitelli C.A.: Water application: a dust control method for bedding chopping. *NIOSH FarmSafe 2000 Pamphlet*, 1993.
2. Musgrave K.J., Piacitelli C.A., Kullman G.J., Berardinelli S.P., Dieffenbach A.D., Parker J.E.: NIOSH alert: Request for assistance in preventing asthma and death from diisocyanate exposure: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH. NIOSH Publication No. 96-111, 1996.
3. Kullman G.J., Piacitelli C.A., Parker J.E., Flesch J.: Hazard / controls: Control of organic dusts from bedding choppers in dairy barns. NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH. NIOSH Publication No. 97-103, 1997.
4. Piacitelli C., Washko R.: Health Hazard Evaluation Report No. HETA 96-0232-2776: *Met-Tech Industries, Inc.*, Cambridge, OH: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH, 1999.
5. Daroowalla F., Wang M.L., Piacitelli C.A., Burkhardt J.E., Jones W.G.: Health Hazard Evaluation Report No. HETA 98-0212-2788: *Claremont Flock Corporation*, Claremont, NH: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH, 2000.
6. Daroowalla F., Wang M.L., Piacitelli C.A., Burkhardt J.E., Jones W.G.: Health Hazard Evaluation Report No. HETA 98-0238-2789: *Spectro Coating Corporation*, Leominster, MA: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH, 2000.

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7. Piacitelli C., Filios M.: Health Hazard Evaluation Report No. HETA 92-0311-2826: *CSX Transportation, Inc.*, Nashville, TN: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH, 2001.
8. Kanwal R., Kullman G., Kreiss K., Castellan R., Burkhart J., Hilsbos K., Akpinar-Elci M., Piacitelli C., Boylstein R.: NIOSH alert: Preventing lung disease in workers who use or make flavorings: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH. NIOSH Publication No. 2004-110, 2003.
9. Kanwal R.S., Boylstein R.J., Piacitelli C.A. Health Hazard Evaluation Report No. HETA 2001-0474-2943: *American Pop Corn Company*, Sioux City, IANIOSH, U.S. Department of Health and Human Services, Cincinnati, OH. 2004.
10. Piacitelli C., Antao V. Health Hazard Evaluation Report No. HETA 2004-0013-2990: *Hallmark Cards, Inc.*, Lawrence, KS: NIOSH, U.S. Department of Health and Human Services, Cincinnati, OH, 2006.

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Presentations

1. Piacitelli C.A., Jones W.G.: Evaluation of dust concentrations during grain sorghum harvesting. Poster presented at the NIOSH Agricultural Health and Safety Conference, Morgantown, WV. July 1997.
2. Castranova V., Porter D., Hubbs A., Goldsmith T., Whitmer M., Robinson V., Schwegler-Berry D., Battelli L., Washko R., Burkhart J., Piacitelli C., Mercer R., Scabilloni J., Jones W.: Acute response of rats to intratracheal instillation of airborne dust collected at a nylon flocking plant. Proceedings of 23rd Cotton and Other Organic Dusts Research Conference, Orlando, FL, January 3-7, 1999. National Cotton Council, Memphis, TN, PJ Wakelyn, RR Jacobs, R Rylander, Eds. pp. 164-166, 1999.
3. Piacitelli C.A., Harrison J., Jones W.G.: Characterization and control of fungal exposure during document restoration at the National Archives laboratory. Poster presented at the American Industrial Hygiene Conference and Exposition, New Orleans, LA. June 2001.
4. Burkhart J.E., Piacitelli C.A., Yereb D.J., Kullman G.J.: The use of cab enclosures for exposure control during composting. Poster presented at the American Industrial Hygiene Conference and Exposition, New Orleans, LA. June 2001.
5. Kullman G.J., Boylstein R.J., Piacitelli C.A., Jones W.G.: Respiratory exposures from microwave popcorn packaging. Presented at American Industrial Hygiene Conference and Exposition, San Diego, CA. June 2002.
6. Boylstein R.J., Heitbrink W.A., Piacitelli C.A., Kullman G.J., Jones W.G.: Engineering control of airborne contaminants at a microwave popcorn packaging plant. Presentation at the American Industrial Hygiene Conference and Exposition, San Diego, CA. June 2002.
7. Piacitelli CA., Jones W.G.: On the nature of aerosols generated during flock production and coating. Poster presented at the American Industrial Hygiene Conference and Exposition, San Diego, CA. June 2002.
8. Sanderson W., Stoddard R., Echt A., Piacitelli C., Kim D.: Evaluation of bacillus anthracis contamination inside the Brentwood postal facility - Washington, D.C. Presentation at the Society for Epidemiologic Research 35th Annual Meeting, Palm Desert, CA. June 2002.
9. Park J., Rao C., Cox-Gansor J., Boylstein R., Piacitelli C., Schleiff P., Yereb D.: Development of a semi-quantitative mold exposure index for epidemiological studies. Poster presented at the American Industrial Hygiene Conference and Exposition, Dallas, TX. May 2003.
10. Boylstein R., Piacitelli C., Grote A., Kullman G.: Volatile organic compounds generated from artificial butter flavorings in microwave popcorn production. Poster presented at the American Industrial Hygiene Conference and Exposition, Dallas, TX. May 2003.

BIOGRAPHICAL SKETCH

03-29-2006

Germania Araujo Pinheiro, Ph.D.		Senior Service Fellow Tel: (304) 285 6095 E-mail: GPinheiro@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Petrópolis Faculty of Medicine - Brazil	M.D.	1987-1992	Medicine
Rio de Janeiro State University - Brazil	Residency	1994-1996	Pulmonology
Fluminense Federal University - Brazil	M.Sc.	1996-1998	Clinical Research/Pulmonology
Gama Filho University - Brazil	Residency	1998	Occupational Medicine
São Paulo University - Brazil	Ph.D.	2000-2003	Clinical Research/Pulmonology
Centers for Disease Control and Prevention (CDC)	EIS Officer	2003-2005	Epidemiology

Positions

1996-2003	Associate Professor of Pulmonology, Faculty of Medical Sciences, Rio de Janeiro State University
1996-2003	Professor of the Post Graduate Course of Occupational Medicine, Gama Filho University
1998-2003	Member of the State Technical Commission of Occupational Lung Diseases, Rio de Janeiro State Office for Health – responsible for advisement and creation of regulatory norms and protocols, regarding occupational lung diseases over the State
1998-2002	Pulmonologist of the Rio de Janeiro State Office for Justice and the Interior, working with over 100 tuberculosis patients
2000-2003	Professor of Post Graduate Studies, Institute of Social Medicine, Rio de Janeiro State University
2003-2004	Epidemic Intelligence Service Officer, Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
2004-Date	Adjunct Assistant Professor, Community Medicine Department, West Virginia University
2005-Date	Senior Service Fellow, Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

1996-1998	Masters Scholarship, CNPq, Brazilian National Research Council
2001-2003	PhD Scholarship, CNPq, Brazilian National Research Council
2002	ERS Bronze Sponsorship, European Respiratory Society
2004	Nominated for the Alexander D. Langmuir Prize Manuscript Award, Centers for Disease Control and Prevention (CDC) Travel grant to UC Davis, Fogarty Foundation

Other Experience and Professional Memberships

Reviewer of International Journal of Occupational and Environmental Health
 Member of American Thoracic Society
 Member of European Respiratory Society
 Member of Brazilian Respiratory Society

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Peer Reviewed Publications

1. Rufino R., Costa C.H., Antao V.C., Pinheiro G.A., Jansen J.M.: Height/arm-span ratio: a value for spirometric studies in Brazilians. (in Portuguese). *Pulmão RJ*, 5:40-44, 1996.
2. Antao V.C., Pinheiro G.A., Garrido E., Sapienza J.C., Jansen J.M.: Pulmonary lesion following ammonia inhalation. (in Portuguese) *Pulmão RJ*, 6:101-103, 1997.
3. Antao V.C., Pinheiro G.A., Lopes A.J., Jansen J.M.: Bronchial asthma in the winter. (in Portuguese) *Ars Cvrandi*, 34:46-50, 2001.
4. Antao V.C., Pinheiro G.A., Jansen J.M.: Broncholithiasis and lithoptysis associated with silicosis. *Eur Respir J*, 20:1057-1059, 2002.
5. Pinheiro G.A., Antao V.C., Monteiro M.M., Capelozzi V.L., Terra-Filho M.: Mortality from pleural mesothelioma in Rio de Janeiro, Brazil, 1979-2000: estimation from death certificates, hospital records, and histopathologic assessments. *Int J Occup Environ Health*, 9:147-152, 2003.
6. Pinheiro G.A., Antao V.C., Muller N.L.: Tracheobronchopathia osteochondroplastica in a patient with silicosis: CT, bronchoscopy, and pathology findings. *J Comput Assist Tomogr*, 28:801-803, 2004.
7. Pinheiro G.A., Antao V.C., Bang K.M., Attfield M.D.: Malignant mesothelioma surveillance: a comparison of ICD 10 mortality data with SEER incidence data in nine areas of the United States. *Int J Occup Environ Health*, 10:251-255, 2004.
8. Pinheiro G.A., Antao V.C., Wood J.M., Attfield M.D.: Changing patterns of pneumoconiosis mortality--United States, 1968-2000. *MMRW*, 53:627-632. (reprinted in *JAMA* 2004;292:795-796), 2004.
9. Antao V.C., Pinheiro G.A., Kavakama J., Terra-Filho M.: High prevalence of silicosis among stone carvers in Brazil. *Am J Ind Med*, 45:194-201, 2004.
10. Antao V.C., Petsonk E.L., Sokolow L.Z., Wolfe A.L., Pinheiro G.A., Attfield M.D.: Rapidly progressive coal workers' pneumoconiosis in the United States: geographic clustering and other factors. *Occup Environ Med*, 62:670-674, 2005.
11. Antao V.C., Pinheiro G.A., Terra-Filho M., Kavakama J.I., Muller N.L.: High resolution CT in silicosis: correlation with radiographic findings and functional impairment. *J Comput Assist Tomogr*, 29:350-356, 2005.

BIOGRAPHICAL SKETCH

07-10-2006

Lynne Pinkerton, M.D., M.P.H.	Medical Epidemiologist Tel: (513) 841-4344 E-Mail: lpinkerton@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Kansas State University, Manhattan, KS	B.Sc	1982	Chemical Engineering
University of Kansas School of Medicine, Kansas City and Wichita, KS	M.D.	1988	Medicine
University of Washington, Seattle, WA	M.P.H.	1993	Occupational Medicine

Positions

- 1988 Internal Medicine Resident, University of Kansas School of Medicine, Wichita, KS
 1991 Fellow, Occupational Medicine, University of Washington, Seattle, WA
 1993 EIS Officer, CDC, NIOSH, Division of Surveillance, Hazard Evaluations and Field Studies, Cincinnati, OH.
 1995 Epidemiologist, CDC, NIOSH, Division of Surveillance, Hazard Evaluations and Field Studies, Cincinnati, OH

Peer Reviewed Publications

1. Pinkerton LE, Page EH, Petersen MR, Esswein EJ, Lewis DM, Biagini RE, Bledsoe TA, MacKenzie BA, Ward EM. Evaluation of latex-specific IgG as a marker of exposure to natural rubber latex among hospital employees [in preparation].
2. Pinkerton LE, Hein MJ, Stayner, LT. Mortality among a cohort of garment workers exposed to formaldehyde: an update. *Occup Environ Med* 2004;61:193-200.
3. Pinkerton LE, Bloom TF, Hein MJ, Ward EM. Mortality among a cohort of uranium mill workers: an update. *Occup Environ Med* 2004;61:57-64.
4. Whelan EA, Lawson CC, Grajewski B, Petersen MR, Pinkerton LE, Ward EM, Schnorr TM. Prevalence of respiratory symptoms among female flight attendants and teachers. *Occup Environ Med* 2003;60:929-934.
5. Biagini RE, Krieg EF, Pinkerton LE, Hamilton RG. Receiver operating characteristics (ROC) analysis of FDA-cleared serological assays for natural rubber latex-specific IgE antibody. *Clin Diagn Lab Immunol* 2001;8(6):1145-1149.
6. Biagini RE, MacKenzie BM, Bledsoe TA, Lewis DM, Pinkerton L. Natural rubber latex-specific IgE antibodies in non-healthcare workers: comparison of two FDA-cleared in vitro kits. *Journal Environ Med* 2000;1:147-151.
7. Dick RB, Pinkerton LE, Krieg EF Jr., Biagini RE, Deddens JA, Brightwell WS, Grubb PL, Taylor BT, Russo JM. Evaluation of postural stability in workers exposed to lead at a secondary lead smelter. *Neurotoxicology* 1999;20(4):595-607.
8. Pinkerton LE, Biagini RE, Ward EM, Hull RD, Deddens JA, Boeniger MF, Schnorr TM, MacKenzie BA, Luster MI. Immunologic findings among lead exposed workers. *Am J Ind Med* 1998;33(4):400-408.

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BIOGRAPHICAL SKETCH

Douglas E. Pollock, P.E.	Mechanical Engineer Tel: 412-386-6863 E-Mail: DEPollock@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh at Johnstown	B.S.	1986	Mechanical Engineering Tech

Positions

10/01/1996-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

NIOSH – Special Act or Service Award: July 1998, September 1998, April 2000, June 2000, September 2002, August 2003

Other Experience and Professional Memberships

Registered Professional Engineer, Commonwealth of Pennsylvania, 1993

Peer Reviewed Publications

1. Cecala, AB, AD O'Brien, DE Pollock, JA Zimmer, JL Howell, and LJ McWilliams. Reducing Respirable Dust Exposure of Workers Using An Improved Clothes Cleaning Process. Journal of Occupational and Environmental Hygiene. Journal review – to be published 2005.
2. Organiscak, JA, DE Pollock. Development of a Lower Pressure Water-Powered Spot Scrubber for Mining Applications. 2005 SME Annual Meeting and Exhibit. Salt Lake City, Utah, March, 2005.
3. Goodman, GVR, DE Pollock. Use of a Directional Spray System Design to Control Respirable Dust and Face Gas Concentrations Around a Continuous Mining Machine. Journal of Occupational and Environmental Hygiene, December, 2004, pp.806-815.

Conference Proceedings

1. Cecala, AB, JA Zimmer, JF Colinet, RJ Timko, GJ Chekan, and DE Pollock. Control Technology Using Ventilation to Reduce Respirable Dust Exposures at U.S. Metal/Nonmetal Mining Operations. To be published at 8th International Mine Ventilation 2005 Congress. Brisbane, Queensland, Australia, July 2005.
2. Goodman, GVR, DE Pollock, and TW Beck. A Comparison of a Directional Spray System and a Flooded-Bed Scrubber for Controlling Respirable Dust Exposures and Face Gas Concentrations. Proceedings of the Tenth US/North American Mine Ventilation Symposium, Anchorage, Alaska, May, 2004. pp. 241-248.
3. Pollock, DE, AB Cecala, JA Zimmer, AD O'Brien, JL Howell. A New Method to Clean Dust From Soiled Work Clothes. Proceedings of the Eleventh US/North American Mine Ventilation Symposium, State College, Pennsylvania, June, 2004. pp.197-201.

Trade Journal

Pollock, DE, AB Cecala, AD O'Brien, JA Zimmer, JL Howell. A New Method to Clean Dust-Soiled Work Clothes. Rock Products, March, 2005.

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BIOGRAPHICAL SKETCH

Steve H. Reynolds		Team Leader, CDC/NIOSH/HELD/TMBB – SIR6@cdc.gov (304) 285-5806	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
Appalachian State University, Boone, NC	B.A.	1974	Chemistry
University of Nebraska, Lincoln, NE	M.S.	1976	Chemistry
University of North Carolina-Chapel Hill, NC	Ph.D.	1981	Biochemistry

Comment [HELD1]: The Biographical Sketch is a format page. Headings and formats can be inadvertently altered. Careful attention to insertion points on the page will guard against accidental corruption and deletion of these. If not used, delete extra rows at bottom of this section to gain space.

Comment [HELD2]: If not used, delete extra rows at bottom of this section to gain space.

Positions

1981-1983	National Research Service Fellowship (Postdoctoral), Tumor Virology, Fred Hutchinson Cancer Research Center, Seattle, Washington
1983-1985	Staff Fellow, Laboratory of Cellular and Molecular Biology, National Cancer Institute, National Institutes of Health, Bethesda, Maryland
1985-1988	Senior Staff Fellow, Laboratory of Molecular Toxicology, Division of Biometry and Risk Assessment, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
1988-1992	Expert, Laboratory of Molecular Toxicology, Division of Biometry and Risk Assessment, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
1992-1995	Director - Research and Development, Life Sciences, Inc., St. Petersburg, Florida
1995-1997	Director - Biological Operations, Life Sciences, Inc., St. Petersburg, Florida
1997-Date	Team Leader, Molecular Genetics Lab, Toxicology and Molecular Biology Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Morgantown, West Virginia

Honors

Phi Lambda Upsilon National Chemistry Honorary
 Trainee Fellowship, Public Health Service National Research Service Award
 Consultant, National Cancer Institute Program Review Group
 1999 AFGE Local 3430 ALOSH Supervisor of the Year Award
 Nominee, 2004 Charles C. Shepard Science Award (outstanding laboratory and methods scientific paper)

Invited Speaker (National or International Conference)

1987	Symposium on Basic Research in Risk Assessment, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
1989	Critical Target Genes in Chemical Carcinogenesis, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina
1990	15th International Cancer Congress, Hamburg, Germany
1990	U.S.-Japan Co-operative Cancer Research Meetings, Rockville, Maryland
1991	5th International Conference on Carcinogenesis and Risk Assessment: Comparative Molecular Carcinogenesis, Austin, Texas, 1991
2000	3rd International Mouse Lung Tumorigenesis Symposium, Toledo, Ohio

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Professional Societies

American Association for Cancer Research

Selected peer-reviewed publications (in chronological order)

(Publications selected from 41 peer-reviewed publications)

1. Reynolds SH, Anna CK, Brown KC, Wiest JS, Beattie EJ, Pero RW, Anderson MW. Oncogene activation in human lung tumors from smokers. Proc. Natl. Acad. Sci. USA 1991;8:1085-1089.
2. You M, Wang Y, Stoner G, You L, Maronpot R, Reynolds S, Anderson M. Parental bias of Ki-ras oncogenes detected in lung tumors from mouse hybrids. Proc Natl Acad Sci USA 1992;89:5804-5808.
3. Wiest JS, Burnett VL, Anderson MW, Reynolds SH. A novel mechanism of *in vivo* ras gene activation involving tandem duplication of coding sequences. Oncogene 1994;9:2449-2454.
4. Sargent LM, Nelson MA, Lowry DT, Senft JR, Jefferson AM, Ariza ME, Reynolds SH. Detection of three novel translocations and specific common chromosomal break sites in malignant melanoma by spectral karyotyping. Genes, Chrom. & Cancer 2001;32:18-25.
5. Sargent LM, Senft JR, Lowry DT, Jefferson AM, Tyson FL, Malkinson AM, Coleman AE, Reynolds SH. Specific chromosomal aberrations in mouse lung adenocarcinoma cell lines detected by spectral karyotyping: a comparison with human lung adenocarcinoma. Cancer Res. 2002;62:1152-1157.
6. Yuan B-Z, Jefferson AM, Popescu NC, Reynolds SH. Aberrant gene expression in human non-small cell lung carcinoma cells exposed to demethylating agent 5-aza-2'-deoxycytidine. Neoplasia 2004;6:412-419.
7. Clark AM, Reynolds SH, Anderson MW, Wiest JS. Mutational activation of the MAP3K8 protooncogene in lung cancer. Genes, Chrom. & Cancer 2004;41:99-108.

Research Support

HELD/TMBB Intramural Supported Project, Steven H. Reynolds (PI) 10/01/99-11/30/04

NIOSH Susceptibility to Lung Cancer.

1999-2004: Examination of markers for susceptibility to lung cancer and melanoma. Identifying demethylation regulated genes in human lung cancer. Principal Investigator of the study of the cytogenetic alterations of lung cancer and melanoma. Identifying tumor susceptibility genes for lung cancer and detection of the DLC-1 gene as a lung cancer tumor suppressor gene.

2002-2004: Design of a custom comparative genomic hybridization array to examine copy number changes in melanoma and lung, as well as direct comparison of genetic changes in mouse and human lung adenocarcinoma. Functional characterization of the DLC-1 gene as a tumor suppressor gene. Characterizing methylation status in both promoter and intron regions of DLC-1 in human lung cancer.

2004: Cooperative Research and Development Agreement with Spectral Genomics Inc. Co-Principal Investigator of the development of a custom genomic array to determine whether there is a specific genomic fingerprint for melanoma and lung cancer. The effort is further designed to directly compare genomic changes in mouse and human lung cancer. Investigation of effects RhoA, Cdc42, Rac1 in the regulation of lung cancer cell growth and their relationship with the DLC-1 gene, cloning and characterizing variant DLC-1 genes in human lung cancers, and determining the signaling transduction pathway(s) involved in DLC-1 mediated inhibition of tumor cell growth.

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BIOGRAPHICAL SKETCH

James P. Rider	Operations Research Analyst Tel: 412-386-4727 E-Mail: JRider@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Jacksonville University	B.S.	1978	Mathematics

Positions

10/01/1997 – Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention
18 years Government Service

Honors

Finalist for CDC's Shepard Award, June 2004
Pittsburgh Federal Executive Board - Outstanding Professional Employee (Medical/Scientific) Silver Medal, June 2002
CDC and ATSDR Group Honor Award - Labor Management Partnership Achievement Award, June 2000
Certificate of Merit - South African Colliery Managers Best Paper Award, July 1997

Other Experience and Professional Memberships

Professional Society for Mining, Metallurgy, and Exploration

Peer Reviewed Publications

1. Chekan GJ, Colinet JF, Kissel FN, Rider JP, Vinson RP, Volkwein JC. [2005]. Performance of a Light Scattering Dust Monitor in Underground Mines. SME Annual Meeting, Preprint No. 05-069, Salt Lake City, Utah, Feb. 28 – March 2, 2005. SME Transactions, Vol 320, 2006.
2. Rider JP, Colinet JF, and Prokop AE [2003]. Impact of control parameters on shearer-generated dust levels. SME Transactions Volume 312 ,2002, pp 28-34.
3. Rider JP, Taylor CD, Thimons ED [1997]. Measuring low level methane concentrations with an air-bag sampling system. The Journal of Mine Ventilation Society of South Africa. Volume 50, Number 2, April / June, pp 47-56.

NIOSH Publications and Technical Reports

Rider JP, Cantrell BK, Volkwein JC, Tuchman DP, Drake PL [1999]. Preventing Hearing Loss Among Miners. Mining Safety and Health Focus. Vol. 4, No. 1. Pittsburgh, PA.: U.S. Department of Health and Human Services, Public Health Service, Center for Disease Control and Prevention, National Institute for Occupational Safety and Health

Conference Proceedings:

1. Rider JP, and Colinet JF [2006]. Dust Control on Longwalls – Assessment of the State-of-the-Art. 11th U.S./North American Mine Ventilation Symposium, State College, Pennsylvania, June 2006, pp 225-232.
2. Colinet JF, Goodman GVR, Listak JM, Chekan GJ, Rider JP, Pollock DE, Thimons ED [2005]. Effective Control of Respirable Dust in Underground Coal Mines in the United States. Proceedings, 8th International Mine Vent. Congress, Brisbane, Australia, pp 129-134.
3. Colinet JF, Chekan GJ, Listak JM, and Rider JP [2002]. Ventilation impacts on respirable dust control. North American 9th U.S. Mine Ventilation Symposium, Kingston, Ontario, June, 2002

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4. Rider JP, and Colinet JF [2001]. Reducing worker exposure to dust generated during longwall mining, In : Proceedings of 7th International Mine Ventilation Congress, Krakow, Poland, pp 275-282
5. Rider JP, Colinet JF, Chekan GJ, Listak JM, Thimons ED [2001]. Longwall dust control : issues and possible solutions. In : Proceedings of Longwall USA 2001 International Exhibition and Conference. Pittsburgh Pa., pp 91-111
6. Burks JA, Rider JP, Cecala AB [1998] Acoustical considerations in the design of minerals processing plants. Proceedings of the National Conference on Noise Control Engineering, Ypsilanti, Michigan, pp 443-448.
7. Taylor CD, Rider JP, Thimons ED [1997] Impact of unbalanced intake and scrubber flows on face methane concentrations. The 6th International Mine Ventilation Congress, Pittsburgh, Pennsylvania, Chapter 27, pp 169-172.
8. Rider JP, Taylor CD, Zimmer JA [1997]. Evaluating ventilation parameters. Proceedings of Ventilation 97, Ottawa Canada, pp 338-345.
9. Taylor CD, Rider JP, Thimons ED [1996]. Changes in face methane concentrations using high capacity scrubbers with exhausting and blowing ventilation. Society for Mining, Metallurgy, and Exploration, Inc. Pre-Print 96-167

Magazine Article:

Rider JP, Colinet JF, Listak JM, and Chekan GJ [2001]. Evaluating longwall dust control sources and controls. World Coal, Volume 10 Number 10, October 2001, pp 71-76.

MSHA Safety Bulletin:

Rider JP [1999]. Preventing hearing loss among miners. Fall Church, Va. U.S. Department of Labor, Mine Safety and Health Administration, Holmes Safety Association Bulletin, May-June, 1999.

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BIOGRAPHICAL SKETCH

03-29-2006

Cathy Rotunda, Ed.D.	Information Specialist Tel: (304) 285 6355 E-mail: crotunda@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Fairmont State College	B.A.	1974	Mathematics Education General Earth Science
West Virginia University	M.A.	1983	Mathematics Education Curriculum &
West Virginia University	Ed.D.	1999	Instruction Educational Psychology

Positions

1975-1980	Secondary School Math Instructor, Marion Co.Bd.of Ed.
1988-1996	Adjunct Professor, Fairmont State College
1997-1999	Intern for Vice Pres of Administration, WV High Technology Consortium Foundation
2000-2001	Project Specialist, Div. of Safety Research, National Institute for Occupational Safety and Health, Centers or Disease Control and Prevention (CDC), Morgantown, WV
2001-Date	Information Specialist, Div. of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC) , Morgantown, WV

Honors

1998	West Virginia High Technology Consortium Foundation Spot Recognition Award – For completion and implementation of the WVHTCF Policies and Procedures system.
2003	NIOSH Spot Recognition Individual Award – For skill and initiative in accomplishment in transferring the PDF version of the WORLD Report to an active-server application.
2003	NIOSH Spot Recognition Group Award – For the development and production of the Work-Related Lung Disease Surveillance Report 2002.

Other Experience and Professional Memberships

Professional Teaching Certificate for the State of WV, Math 7-12 and General Science 7-9

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BIOGRAPHICAL SKETCH

03-30-2006

Nancy M. Sahakian M.D., M.P.H.	Medical Officer Tel: (304) 285 6383 E-mail: NSahakian@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Wisconsin – Parkside Kenosha, Wisconsin	B.S.	1975	Biology
Medical College of Wisconsin Milwaukee, Wisconsin	M.D.	1985	Medicine
University of Alabama, School of Public Health Birmingham, Alabama	M.P.H.	2001	Environmental Health

Positions

1985-1988	Family Medicine Residency, St. Luke's Hospital, Cedar Rapids, Iowa
1989-1992	Clinical Medicine, U.S. Air Force, Grissom Air Force Base, Indiana
1988-1989	Clinical Medicine, U.S. Air Force, Izmir, Turkey
1992-2000	Clinical Medicine, Midelfort Clinic, Mayo Health System, Eau Claire, Wisconsin
2000-2001	Occupational Medicine Residency, University of Alabama
2001-2002	Occupational Medicine Residency, University of Michigan
2002-2004	Epidemic Service Intelligence Officer, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention
2004-Date	Medical Officer, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention

Other Experience and Professional Memberships

2003-Date	Adjunct Assistant Professor, West Virginia University School of Medicine, Department of Community Medicine
2004-Date	American Academy of Family Physicians, member
2002-Date	Commissioned Officers Association, member

Peer Reviewed Publications

1. Franzblau A., Sahakian N.: Asthma following household exposure to hydrofluoric acid. *Am J Ind Med*, 44:321-324, 2003.
2. Kanwal R., Kullman G., Piacitelli C., Boylstein R, Sahakian N, Martin S, Fedan K, Kreiss K.: Evaluation of flavoring related lung disease risk at six microwave popcorn plants. *JOEM*, 48:149-157, 2006.

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BIOGRAPHICAL SKETCH			
NAME Linda M. Sargent		POSITION TITLE Project Leader, CDC/NIOSH/HELD/TMBB – LQS1@cdc.gov (304) 285-6134	
EDUCATION/TRAINING (<i>Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.</i>)			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
University of West Florida, Pensacola, FL	B.S.	1970	Biological Science/Chem.
University of Wisconsin, Madison, WI	Ph.D.	1991	Environmental Toxicology

Comment [HELD3]: The Biographical Sketch is a format page. Headings and formats can be inadvertently altered. Careful attention to insertion points on the page will guard against accidental corruption and deletion of these. If not used, delete extra rows at bottom of this section to gain space.

Comment [HELD4]: If not used, delete extra rows at bottom of this section to gain space.

Positions

1990-1991	Postdoctoral Fellow, Chemical Industry Institute of Toxicology, Research Triangle Park, North Carolina
1991-1993	Postdoctoral Fellow, McArdle Laboratory, University of Wisconsin-Madison
1993-1998	IRTA Fellow, Laboratory of Experimental Carcinogenesis, National Cancer Institute, National Institutes of Health, Bethesda, Maryland
1998-2002	Project Leader, Toxicology and Molecular Biology Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Morgantown, West Virginia
2002-Date	Research Toxicologist, Toxicology and Molecular Biology Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Morgantown, West Virginia

Honors

1985	Grant for the development of <i>in vitro</i> tests to study the possible genetic effects of polychlorinated biphenyl mixtures on human cells (Center for Disease Control)
1986-1988	Toxicology Center NIH Fellowship, University of Wisconsin-Madison
1991	Upjohn Travel Award for research merit from the Program Committee of the American Association for Cancer Research
1994	American Association for Cancer Research Award for Meritorius
1995	Abstract

Selected peer-reviewed publications (in chronological order).

1. [Sargent LM](#), Dragan YP, Bahnbu N, Wiley JE, Sattler CA, Schroeder P, Sattler GL, Jordan VC, Pitot HC. Tamoxifen induces hepatic aneuploidy and mitotic spindle disruption after a single *in vivo* administration to female Sprague-Dawley rats. *Cancer Res.* 1994;54:3357-3360.
2. [Sargent LM](#), Dragan YP, Sanderson ND, Thorgeirsson SS, Pitot HC. Tamoxifen analogues induce aneuploidy and spindle disruption after a single *in vivo* administration. *Carcinogenesis.* 1996;17:1051-1056.
3. [Sargent LM](#), Sanderson ND, Thorgeirsson SS. Ploidy and karyotypic alterations associated with early events in the development of hepatocarcinogenesis in transgenic mice harboring c-myc and TGF- α transgenes. *Cancer Res.* 1996;56:2137-2142.

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4. Sargent LM, Dragan YP, Babcock K, Klaunig JE, Wiley JE, Pitot HC. Correlation of an early, consistent chromosomal alteration with insulin-like growth factor II expression in three rat liver epithelial cell lines. *Cancer Res.* 1996;56:2992-2997.
5. Sargent LM, Dragan YP, Sattler G, Pitot HC. Karyotypic changes in the development of carcinogenesis in transgenic rats harboring SV-40 transgene. *Cancer Res.* 1997;57:3451-3456.
6. Sargent LM, Zhou X, Keck CL, Sanderson ND, Zimonjic DB, Popescu NC, Thorgeirsson SS. Nonrandom Cytogenetic Alterations in Hepatocellular Carcinoma from Transgenic Mice Overexpressing c-Myc and Transforming Growth Factor- in the Liver. *American Journal of Pathology* 1999;154:1047-1055.
7. Bolon B, Galbreath EJ, Sargent L, Weiss J. Emerging new techniques: Genetic engineering and molecular technology. In: *The Rat* (Krinke G, ed.), Academic Press, London, 2000.
8. Sargent LM, Nelson MA, Senft JR, Lowry DT, Ariza ME, Yang JM, Reynolds SH. Translocations and specific chromosomal break sites in malignant melanoma detected by spectral karyotyping. *Genes Chromosomes and Cancer* 2001;32:18-25.
9. Sargent, LM. Role of Polychlorinated Biphenyl Exposure in the Progression of Neoplasia In: *Recent Advances in the Environmental Toxicology and Health Effects of PCBs* (Robertson L and Hansen L, eds.), University Press of Kentucky, 2001.
10. Robertson GP, Sargent LM, Nelson MA. Tumor Suppressor Genes, Positional Approaches to Cancer Genetics In: *Methods in Molecular Medicine* (El-Deiry WS, ed.), Humana Press, USA, 2001.
11. Dragan YP, Nuwaysir E, Sargent L, Li D-H, Jordan VC, Pitot H. The Effects of Triphenylethylene Antiestrogens on Parameters of Multistage Hepatocarcinogenesis in the Rat. In: *Hormonal Carcinogenesis III* (Li JJ, Li SA, Daling JR, eds.), pp.124-135 (2001).
12. Sargent LM, Senft JR, Lowry DT, Tyson FL, Malkinson AM, Reynolds SH. Specific chromosomal changes in mouse lung adenocarcinoma cell lines detected by spectral karyotyping. *Cancer Research* 2002;62:1152-1157.

Research Support

Ongoing Research Support

HELD/TMBB Intramural Supported Project, Steven H. Reynolds (PI) 10/01/99-11/30/04

NIOSH

The Susceptibility to Lung Cancer.

1999-2004: Examined markers for susceptibility to lung cancer and melanoma. Co-Principal Investigator of the study of the cytogenetic alterations of lung cancer and melanoma.

2002-2004: Design of a custom comparative genomic hybridization array to examine copy number changes in melanoma and lung, as well as direct comparison of genetic changes in mouse and human.

2004: Cooperative Research and Development Agreement with Spectral Genomics Inc. Principal Investigator of the development of a custom genomic array to determine whether there is a specific genomic fingerprint for melanoma and lung cancer. The effort is further designed to directly compare genomic changes in mouse and human lung cancer.

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BIOGRAPHICAL SKETCH

Millie P. Schafer, Ph.D.		Research Chemist Tel: (513)-841-4362 E-Mail:mps3@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Bellarmino College, Louisville, KY,	B.A	1969	Chemistry
University of Tennessee, Department of Biochemistry, Knoxville, TN	M.S	1972	Biochemistry-Molecular Genetics
The Institute of Children's Literature, Redding Ridge, CT	Diploma	1982	
University of Cincinnati, College of Medicine, Department of Molecular Genetics, Biochemistry and Microbiology, Cincinnati, OH.	Ph.D.	1991	Molecular Genetics

Positions

2002-present	Research Chemist, GS-14, National Institute for Occupational Safety and Health, Cincinnati, Ohio 45226
1998-2002	Research Chemist, GS-13, National Institute for Occupational Safety and Health, Cincinnati, Ohio 45226
1992- 1998	Research Chemist, GS-12, National Institute for Occupational Safety and Health, Cincinnati, Ohio 45226
1987-1991	Predoctoral Student, University of Cincinnati College of Medicine, Dept. of Molecular Genetics, Biochemistry and Microbiology, 3110 Medical Sciences Building, ML 524, Cincinnati, OH 45267-0524.
1987-1992	Toxicologist (part-time), University of Cincinnati Medical Center, University Hospital, Laboratory of Toxicology, Cincinnati, OH
1986-1987	Research Scientist, Merrell Dow Research Institute, Cincinnati, OH
1978-1986	Chemist, GS-11, National Institutes of Health, National Heart, Lung and Blood Institute, Bethesda, MD 20892
1982-1983	Lecturer, Department of Chemistry, Trinity College, Washington, D.C.
1976-1978	Chemist, GS-9, National Institutes of Health, National Cancer Institute, Bethesda, MD
1975-1976	Scientist, Meloy Laboratories, Rockville, MD 1973-1975 Research Assistant, Frederick Cancer Research Center, Frederick, MD
1971-1973	Research Assistant, University of Tennessee-Oak Ridge National Laboratories, Knoxville, TN
1969-1971	NDEA Predoctoral Fellow, Department of Biochemistry, University of Tennessee, Knoxville, TN
1974-	The training of other scientists and the supervision of research assistants while working on one or more research projects was routinely associated with positions as stated above. Several of these positions involved setting up new laboratories.

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Honors

NIOSH Alice Hamilton Award Honorable Mention-Biological Sciences Category, 2006
NIOSH Alice Hamilton Award Winner-Biological Sciences Category, 2004
U. S. Provisional Patent Application/Foreign Filing License on the Histoplasma capsulatum PCR method granted 5/11/98 (I-006-97/0). International filings in Australia, Brazil as well as the U.S. occurred on October 13, 2000. The patent issued on October 22, 2002 as U.S. Patent No. 6,469,156.
Outstanding Performance Award, NIOSH, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003.
Special Act or Service Award - Contributions to the OSHA Draft TB Standard, 1999.
Shepherd Award Nomination (Molecular and Cellular Probes@, 1999).
Finalist in the 1998 American Industrial Hygiene Association=s Best Indoor Environmental Quality Paper Award (AIHAJ, 1998).
Elected AFGE Local 3840 Union Steward, 1997-1998, 1998-1999.
Special Act or Service Award - Development of labs needed for a bioanalytical program, 1995.
Performance Awards, 1993, 1994, 1995, various group awards, On-the-Spot awards, etc.
Speaker - American Chemical Society Student Affiliates Chapters, 1984-1990.
Citizen of the Year - Parkside Community, Bethesda, MD, 1986
Secretary, Board of Directors, Parkside Development Corporation, Bethesda, MD, 1983-1985
Outstanding Performance Award - HHS, NIH, NHLBI, 1985.
Guest Lecturer - Trinity College, Washington, D.C., 1981-1985
Membership Secretary - Sigma Delta Epsilon - Graduate Women in Science, 1982-83 and 1983-84.
4 year NDEA Fellowship - University of Tennessee.
Various tuition scholarships, chemistry achievement award, summer research stipend, the Dean's List, class and dormitory student council offices- Ursuline and Bellarmine Colleges.

Other Experience and Professional Memberships

The New York Academy of Sciences (elected)
Sigma Xi, University of Cincinnati Chapter (elected)
Sigma Delta Epsilon-Graduate Women in Science
American Society for Microbiology
NIH Alumni Association
University of Cincinnati Alumni Association
National Bacillus anthracis Bioterrorism Research Priorities for Public Health Response@
Development of a NIOSH Engineering Control (UVGI) Technical document
Revision of the national CDC TB Guidelines
OSHA proposed TB standard
UVGI/TB RFC (No. 2) and development of additional research activities (head).
NIOSH Genetics Working Group - division representative
UVGI/TB, development of interagency Agreement between NIOSH/CDC and G.W. Long Hansen's Disease Center.
Efficacy of UVGI in killing M. tuberculosis RFC (No.1).
NIOSH TB bioaerosol/respirator research.
NIOSH Biosafety
Biosafety (VA Hospital, Cincinnati, Ohio)
Inter-Center, Institute, Office Committee on Epidemiology and Laboratory (CDC/NIOSH - interagency)
AFGE Local 3840 Election Committees, including chairperson position
NIH Promotion Panels, GS-9/11, 1980s (prior to 1986)

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Grants Office Advisor /Reviewer/Consultant

5 R01 OH02948-02, Klaus Willeke, University of Cincinnati, 1992-1995 .

EPA grant reviewer and EPA research manuscript reviewer.

Reviewer for various journal research papers (Am. Ind. Hyg. Assoc., Aerosol Sci. & Tech., etc.).

Reviewer for numerous intra-agency documents, research papers, book chapters, etc.

Reviewer for proposed OSHA TB standard.

Responded to several hundred requests from various university researchers, intra-agency/interagency scientists (CDC/NIOSH/NIH), environmental companies, etc., for assistance in regard to mycobacteria /fungi activities and related biosafety concerns.

Division TB representative in interagency TB meetings (other NIOSH divisions and various CDC centers).

Project Officer: (Intramural) AMethod Development for Fungi@;AMethod Development for Airborne TB@, and ATB/Mycobacteria Quantitative PCR Method Development@, and (Extramural) AEfficacy of Ultraviolet Irradiation in Controlling the Spread of Tuberculosis research contract, University of Colorado at Boulder.

Scientific Consultant for the preparation of "The Floating Zoo", for the national magazine, Discover The World of Science, February, 1997.

Co-Moderator, "IAQ data/studies in perspective", NIOSH Interdivisional Bioaerosols, Salt Fork Conference, 1994.

Publications

Peer reviewed journals

1. Rogan, E.G., Schafer, M.P., Anderson, N.G., and Coggin, J.H. Cyclic AMP levels in the developing hamster foetus: a correlation with the phasing of foetal antigen in membrane maturation. *Differentiation* 1:199-204, 1973.
2. Schafer, M.P., Hannon, W.H., and Levin, A.P. *In vivo* and *in vitro* complementation between *guaB* and *in vivo* complementation between *guaA* auxotrophs of *S.typhimurium*. *J. Bacteriol.* 177:1270-1279, 1974.
3. Schafer, M.P., Chirigos, M.A., and Papas, T.S. The inhibition of RLV and AMV RNA-dependent DNA polymerase by tilorone hydrochloride and its analogs. *Cancer Chemother. Rep.* 58:821-827, 1974.
4. Papas, T.S., and Schafer, M.P. The inhibition of Rauscher leukemia virus and avian myeloblastosis virus DNA polymerases by anthracycline compounds. *New York Acad. Sci.* 284:566-575, 1977.
5. Papas, T.S., Pry, T.W., Schafer, M.P., and Sonstegard, R.A. Presence of DNA polymerase in lymphosarcoma in Northern Pike (*Esox Lucius*). *Cancer Res.* 37:3214-3217, 1977.
6. Schafer, M.P., Rohrmann, G., Heine, U., and Beaudreau, G.S. DNA from two *O.pseudotsugata* baculoviruses: Molecular weight determination by means of electron microscopy and restriction endonuclease analysis. *Virology* 95:176-184, 1979. (*Ideas 80%, work 80%, writing 100%; Citations, 16*)
7. Boyd, C.D., Tolstoshev, P., Schafer, M.P., Trapnell, B.C., Coon, H.C., Kretschmer, P.F., Nienhuis, A.W., and Crystal, R.G. Isolation and characterization of a 15 kb genomic sequence coding for part of the pro α 2 chain of sheep type I collagen. *J. Biol. Chem.* 255:3212-3220, 1980. (*Ideas 25%, work 25%, writing 20%; Citations, 52*)
8. Schafer, M.P., Boyd, C.D., Tolstoshev, P., and Crystal, R.G. Structural organization of a 17 kb segment of the α 2 collagen gene. *Nucl. Acids Res.* 8:2241-2254, 1980. (*Ideas 100%, work 95%, writing 100%; Citations, 12*)
9. Breul, S.B., Bradley, K.H., Hance, A.J., Schafer, M.P., Berg, R.A., and Crystal, R.G. Control of collagen production by human diploid lung fibroblasts. *J. Biol. Chem.* 255:5250-5260, 1980. (*Ideas 20%, work 20%, writing 10%; Citations, 133*)
10. Davidson, J.F., Shibahara, S., Schafer, M.P., Harrison, M., Leach, C., Tolstoshev, P., and Crystal, R.G. Sheep elastin genes, isolation and preliminary characterization of a 9.9 kilobase genomic clone. *Biochem. J.* 220:643-652, 1984. (*Ideas 20%, work 20%, writing 20%; Citations, 20*)

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11. Krieg, T.M., Schafer, M.P., Cheng, C.K., Filpula, D., Flaherty, P., Steinert, P.M., and Roop, D.R. Organization of a Type 1 keratin gene: Evidence for evaluation of intermediate filaments. *J. Biol. Chem.* 260:5867-5870, 1985. (*Ideas 40%, work 40%, writing 40%; Citations, 75*)
12. Goldberg, S.Z., Kuebbing, D., Trauber, D., Schafer, M.P., Lewis, S., Popp, R., and Anderson, W.F. A 66 base pair insert bridges the deletion responsible for a mouse model of beta thalassemia. *J. Biol. Chem.* 261:12368-12374, 1986. (*Ideas 15%,work 15%, writing 10%; Citations, 18*)
13. Curcio, M.J., Kantoff, P., Schafer, M.P., Anderson, W.F., and Safer, B. Compensatory increase in levels of beta minor globin in murine beta-thalassemia is under translational control. *J. Biol. Chem.* 261:16126-16132, 1986. (*Ideas, 15%, work , 15%, writing 10%; Citations, 26*)
14. Gehlert, D.R., Chronwall, B.M., Schafer, M.P., and O'Donohue, T.L. Localization of neuropeptide Y mRNA in rat and mouse brain by *in situ* hybridization. *Synapse* 1:25-31,1987. (*Ideas, 20% work, 20%, writing 10%; Citations 69*)
15. Schafer, M.P., Parker, D.S., Knight, M., Anderson, W.F., and Safer, B. The purification and characterization of subunits alpha, beta and gamma from the rabbit reticulocyte eukaryotic initiation factor 2. *Arch. Biochem. Biophys.* 255:337-346,1987. (*Ideas, 75%, work, 75%, writing, 100%; Citations 8*)
16. Gehlert, D.R., Bishop, J.F., Schafer, M.P., and Chronwall, B.M. Rat intermediate lobe in culture: Dopaminergic regulation of POMC biosynthesis and cell proliferation. *Peptides* 9: Suppl. 1, 161-168, 1988. *Ideas, 10%, work 10%, writing, 5%; Citations, Journal not part of the listing*)
17. Schafer, M.P. The rapid separation and quantitation of mouse reticulocyte alpha and beta-globin polypeptide chains using reverse-phase HPLC. *J. Chromatogr. Biomed. Appl.* 431:177-183, 1988. (*Ideas, 100%, work 100%, writing 100%, Citations, 2*)
18. Martin, G.A., Busch, S.J., Meredith, G.D., Cardin, A.D., Blankenship, D.T., Mao, S.J., Rechten, A.E., Woods, C.W., Racke, M.M., Schafer, M.P. et al. Isolation and cDNA sequence of human postheparin plasma hepatic triglyceride lipase. *J. Biol. Chem.* 263(22):10907-10914, 1988. (*Ideas, 10%, work 10%, writing 5%, Citations, 77*)
19. Schafer, M.P. and Dean, G.E. Cloning and sequence analysis of an H⁺-ATPase-encoding gene from the human dimorphic pathogen *Histoplasma capsulatum*. *Gene* 136: 295-300, 1993. (*Ideas, 100%, work 100%, writing 100%, Citations, 7*)
20. Schafer, M.P. Adaptation of a rapid, sensitive commercial PCR assay for the detection of airborne M. tuberculosis (TB). *Infect Control Hospit Epidemiol* 15:771, 1994 (*Ideas, 100%, work 100%, writing 100%, Citations, 1*).
21. Schafer, M.P., Fernback, J.E. and Jensen, P.A. Sampling and analytical method development for qualitative assessment of airborne mycobacterial species of the Mycobacterium tuberculosis complex. *Am. Ind. Hyg. Assoc.* 59:540-546, 1998. (*Ideas, 100%, work 90%, writing 100%, Citations, 11*). (Finalist- 1998 American Industrial Hygiene Association's Best Indoor Environmental Quality Paper Award)
22. Jensen, P.A. and Schafer, M.P. Physical and biological test methods to evaluate the containment of bioaerosols within an aerosol chamber. (in preparation)
23. Schafer, M.P. Fernback, J.E. and Ernst, M.K. Detection and characterization of airborne M. tuberculosis H37Ra particles, a surrogate for airborne pathogenic M. tuberculosis. *Aerosol Sci. & Tech.* 30:161-173, 1999. (*Ideas, 100%, work 90%, writing 100%, Citations, 11*)
24. Pendergrass, S. and Schafer, M.P. GC/FAME: A tool for the identification and differentiation of selected members of the genus mycobacterium. (in preparation).
25. Reid, T.M. and Schafer, M.P. Direct detection of Histoplasma capsulatum in contaminated soil by 2-stage PCR. *Molecular & Cellular Probes* 13:269-273, 1999. (*Ideas, 50%, work 30%, writing 20 % , Citations, 10*)

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26. Schafer, M.P., Martinez, K.F. and Mathews, E.S. Rapid detection and determination of the aerodynamic size range of airborne mycobacteria associated with whirlpools. *Applied Occupational and Environmental Hygiene* 18: 41-50, 2003. (NIOSH 2004 Alice Hamilton Award – Biological Sciences Category)
27. Xu, P., Kujundzic, E., Peccia, J., Schafer, M.P., Moss, G., Hernandez, M. and Miller, S.L. Impact of environmental factors on efficacy of upper-room air ultraviolet germicidal irradiation for inactivating airborne mycobacteria. *Environmental Science & Technology* 39:9656- 9664, 2005.
28. Tobias, H.J., Schafer, M.P., Pitesky, M., Fergenson, D.P., Horn, J., Frank, M. and Gard, E.E. Bioaerosol mass spectrometry for rapid detection of individual airborne *Mycobacterium tuberculosis* H37Ra particles. *Applied and Environmental Microbiology* 71: 6086-6095, 2005. (NIOSH 2006 Alice Hamilton Award – Biological Sciences Category)

NIOSH Technical Reports/Documents/Chapters

1. Lenhart, S.W. and Schafer, M.P. Saint Joseph's Catholic Church, Saint Leon, Indiana. *Health Hazard Evaluation Report* 93-1119-2374: 1-12, 1994.
2. Schafer, M.P. Sampling and analytical method development for airborne *M. tuberculosis*, peer reviewed document, March 29, 1994 (final approval, March 7, 1995).
3. Jensen, P.A. and Schafer, M.P. Sampling and characterization of bioaerosols. Chapter in *NIOSH Manual of Analytical Methods*, 4th edition (Supplement), pp.63-92, 1995.
4. Histoplasmosis. Fact Sheet, NIOSH/CDC interagency publication, 1997.
5. Lenhart, S.W., Schafer, M.P., Singal, M. and Hajjeh, R.A. Histoplasmosis Protecting Workers at Risk, DHHS (NIOSH) Publication No. 97-146, September, 1997.
6. Schafer, M.P. Airborne *Mycobacterium tuberculosis* - Method 0900. *NIOSH Manual of Analytical Methods*, 4th edition (2nd Supplement), 1998.
7. Lenhart, S.W., Schafer, M.P., Singal, M. and Hajjeh, R.A. Histoplasmosis Protecting Workers at Risk (Revised Edition), DHHS(NIOSH) Publication No. 2005-109, December 2004.
8. Jensen, P.A., Lighthart, B., Mohr, A.J. and Shaffer, B.T. Instrumentation Used with Microbial Bioaerosols. In *Atmospheric Microbial Aerosols Theory and Applications*, B. Lighthart and A.J.Mohr (eds), New York, London: Chapman & Hall, 1994, pp.226-284

Abstracts (Presentations)

1. Schafer, M.P., and Levin, A.P. Kinetic studies on *in vitro* forms of inosinic acid dehydrogenase in *S.typhimurium*. Regional Meeting of the American Society for Microbiology, Bowling Green, KY, 1971.
2. Schafer, M.P., Rogan, E., and Hannon, W.H. The relationship of sialic acid and cyclic AMP to the expression of fetal antigen in the developing hamster fetus. Proc. Kentucky-Tennessee-Ohio Branch, American Society for Microbiology, 1972.
3. Schafer, M.P., Chirigos, M.A., and Papas, T.S. Inhibition of oncornavirus DNA polymerases by anthracycline compounds. Amer. Assoc. Cancer Res., San Diego, CA, May 1975.
4. Schafer, M.P., and Papas, T.S. The inhibition of Rauscher leukemia virus and avian myeloblastosis virus DNA polymerases by anthracycline compounds. New York Acad. Sci., New York, New York, February 1976.
5. Boyd, C.D., Tolstoshev, P., Trapnell, B.C., Schafer, M.P., Coon, H.C., Kretschmer, P.J. Nienhuis, A.W., and Crystal, R.G. Molecular cloning of procollagen gene sequences in the lambda bacteriophage vector Charon 4A. Third Annual Meeting of the Mid-atlantic Extra Chromosomal Elements Group, Virginia Beach, October 1979.

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6. Boyd, C.D., Tolstoshev, P., Schafer, M.P., Trapnell, B.C., Coon, H.C., Kretschmer, P.J., Nienhuis, A.W., and Crystal, R.G. Identification and structural characterization of two 14 kilobase DNA fragments containing genomic sequences coding for the pro α 2 chain of type I procollagen. 19th Annual Meeting of the American Society for Cell Biology, Toronto, Canada, November 1979.
7. Tolstoshev, P., Boyd, C.D., Schafer, M.P., Trapnell, B.C., Coon, H.C., Kretschmer, P.J., Nienhuis, A.W., and Crystal, R.G. Isolation and characterization of genomic DNA sequences coding for the pro α 2 chain of sheep type I procollagen. The 12th Miami Winter Symposium, January 1980.
8. Schafer, M.P., Boyd, C.D., Tolstoshev, P., and Crystal, R.G. Elucidation of the structural organization of a cloned sheep pro α 2 collagen gene by R loop mapping. ICN-UCLA Symposia on Molecular and Cellular Biology, Keystone, Colorado, March 1980.
9. Goldberg, S.Z., Kuebbing, D., Trauber, D., Schafer, M. P, Berg, P.E., and Anderson, W.F. A deletion in the beta-globin locus is caused by a transposition. *Clin. Res.* 33:542A, 1985.
10. Schafer, M.P., Parker, D.S., Knight, M., Anderson, W.F., and Safer, B. The purification and characterization of subunits alpha, beta, and gamma from the rabbit reticulocyte eukaryotic initiation factor eIF-2. *Fed. Proc.* 43:1869, 1984.
11. Curcio, M.J., Schafer, M.P., and Safer, B. Compensatory increase of beta minor globin in murine beta thalassemia. Gordon Research Conference on Red Cells, August 1985.
12. McEnery, M.W., Burns, D.L., Liu, T.Y., Schafer, M.P., Moss, T., and Vaughan, M. Evidence for a family of retina-specific messages coding for the gamma subunit of transducin. *Fed. Proc.*, 1986.
13. Gehlert, D.R., Chronwall, B.M., Schafer, M.P., and O'Donohue, T.L. Localization of neuropeptide Y mRNA by *in situ* hybridization. Society for Neuroscience, October 1986.
14. Schroeder, T., Martin, L., Ryckman, F., Schafer, M., Pedersen, S., Traylor, D., Pesce, A., Balistreri, W., Muth, K. Monitoring immune status activity in pediatric liver transplant recipients: Quantitation of soluble interleukin 2-receptor (sIL2R) by microparticle enzyme immunoassay. American Association for the Study of Liver Diseases, November 1990.
15. Schafer, M.P. Adaptation of a rapid, sensitive commercial PCR assay for the detection of airborne M. tuberculosis (TB). Society of Occupational and Environmental Health (SOEH), December 1994.
16. Schafer, M.P. Development of a DNA analytical method for the detection of nonculturable airborne M. tuberculosis (TB). American Association for Aerosol Research (AAAR), October 1995.
17. Schafer, M.P. and Jensen, P.A. The development of sampling and DNA amplification analytical methods for airborne M. tuberculosis (TB). American Association for Aerosol Research (AAAR), October 1996.
18. Reid, T.M. and Schafer, M.P. Direct detection of Histoplasma capsulatum in contaminated soil by 2-stage PCR. American Society for Microbiology (ASM), May 1997.
19. Schafer, M.P., Fernback, J. and Martinez, K. Use of PCR for the detection of airborne tuberculosis (TB): A novel sampling and analytical method. American Industrial Hygiene Conference & Exposition (AIHCE), May 1997.
20. Jensen, P.A. and Schafer, M.P. Physical and biological test methods to evaluate the containment of bioaerosols within an aerosol chamber. American Industrial Hygiene Conference & Exposition (AIHCE), May 1997.
21. Schafer, M.P., Fernback, J., Pendergrass, S. and Ernst, M.K. The use of avirulent M. tuberculosis H37Ra for the development of a DNA analytical method for airborne pathogenic M. tuberculosis (TB). American Association for Aerosol Research (AAAR), October 1997.
22. Schafer, M.P. Guidelines for Prevention of Histoplasmosis in the Cleanup of Bird Droppings and Bat Guano. MidAtlantic Environmental Hygiene Resource Center, October 1997.
23. Lenhart, S.W. and Schafer, M.P. Removal of 60 tons of manure from a building: Protecting workers at risk. American Industrial Hygiene Conference & Exposition (AIHCE), May 1998.

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24. Martinez, K.F., Schafer, M.P. and Seitz, T.S. Airborne dissemination of mycobacterium species from contaminated therapy/whirlpools. American Industrial Hygiene Conference & Exposition (AIHCE), May 1999.
25. Schafer, M.P., Martinez, K.F., Seitz, T.S. and Mathews, E.S. Use of a M. tuberculosis sampling and analytical method to detect nontuberculous mycobacteria associated with whirlpools. American Industrial Hygiene Conference & Exposition (AIHCE), May 1999.
26. Schafer, M.P., Moss, C.E. and Jensen, P.A. Overview of NIOSH Activities to Evaluate the Efficacy of UVGI to Inactivate Microorganisms Including Mycobacterium tuberculosis. Hazard Control Technologies in Healthcare: Collaborative Strategies for the Next Millennium, August 1999.
27. Martinez, K. F., Schafer, M.P. and Seitz, T.A. The Detection and Characterization of Airborne Dissemination of Mycobacterium species from Contaminated Therapy Pools and Whirlpools. Hazard Control Technologies in Healthcare: Collaborative Strategies for the Next Millennium, August 1999.
28. Schafer, M.P. and Mathews, E.S. Quantitative Detection of Mycobacteria spp. Using Real-Time Quantitative PCR and SYBR^R Green Chemistry. American Society for Microbiology (ASM), May 2002.
29. Schafer, M.P. Sampling for fungi and Bacteria Using Novel, Rapid Analytical DNA Methods Such as the Polymerase Chain Reaction (PCR). 17th Professional Conference on Industrial Hygiene, September 2002 (workshop, invited).
30. Schafer, M.P. *Histoplasma capsulatum*: How to find it! How to Protect Workers at risk. 18th Professional Conference on Industrial Hygiene (PCIH), September 2003. (invited)
31. Schafer, M.P. The efficacy of ultraviolet germicidal irradiation (UVGI): Overview of NOSH activities and findings. (Hot Topics in Non-Ionizing Radiation - Round Table) American Industrial Hygiene Conference & Expo, May, 2004. (invited) Tobias, H.J.,
32. Schafer, M., Pitesdy, M., Ferguson, D.P., Horn, J., Frank, M. and Gard, E.E. Evaluation of bio-aerosol mass spectrometry (BAMS) for the real-time detection of individual airborne *M. tuberculosis* H37Ra particles. American Society for Microbiology (ASM), May, 2004.
33. Schafer, M.P. *Mycobacterium avium*: Inhalation, Illness and Prevention. World Aquatic Health Conference, September, 2005. (invited)
34. Tobias, H.J., Schafer, M.P., Pitesky, M., Ferguson, D.P., Horn, J., Frank, M. and Gard, E.E. Bioaerosol mass spectrometry for the rapid detection of individual airborne health related vegetative bacteria. American Association for Aerosol Research (AAAR), September, 2005.

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Other Presentations (1992-2002)

1. Schafer, M.P. The enzyme-linked immunosorbent assay (ELISA). Salt Fork Conference, November 1992.
2. Schafer, M.P. The polymerase chain reaction (PCR). Salt Fork Conference, November 1992.
3. Schafer, M.P. Safety guidelines for molecular biology: Application to air sampling for mycobacteria. DPSE seminar series, June 1993.
4. Schafer, M.P. Air sampling for TB. CDC/NIOSH meeting with Alan Hinman, CDC, July 1993.
5. Schafer, M.P. PCR and sampling for TB. DPSE managerial meeting, quarterly review, 1993.
6. Schafer, M.P. Air sampling for TB. CDC/NIOSH multi-CIO TB Program Review, November 1993.
7. Schafer, M.P. Air sampling for TB. Documentary film prepared with Don Murdock and presented at the CDC/NIOSH multi-CIO TB Program Review, November 1993.
8. Schafer, M.P. and Lenhart, S.W. Bat guano exposure in church attics and Histoplasma capsulatum. Salt Fork Conference, November 1993.
9. Schafer, M.P. Method Development for airborne Mycobacterium tuberculosis (TB). NIOSH public peer review, March 1994.
10. Schafer, M.P. Adaptation of a rapid, sensitive commercial PCR assay for the detection of airborne M. tuberculosis (TB). Salt Fork Conference, November 1994.
11. Schafer, M.P. and Jensen, P.A. The bioaerosol chamber. DPSE safety seminar, March 1995.
12. Schafer, M.P. Air sampling for TB. National Jewish Center for Immunology and Respiratory Medicine, Denver, Colorado, July 1995. (invited)
13. Schafer, M.P. Sampling and analytical method development for airborne M. tuberculosis. ERDEC, Aberdeen Proving Ground, Maryland 1996. (invited)
14. Schafer, M.P. A novel sampling and analytical method for the detection of airborne Mycobacterium tuberculosis using the polymerase chain reaction. Inter-agency presentations on Occupational Health and Safety Policy/Research in the United States. National Aeronautics and Space Administration Headquarters, Washington, D.C., July 1997. (invited)
15. Schafer, M.P. The Rapid Detection and Identification of Pathogenic Microorganisms in the Workplace, CDC Director's Visit, NIOSH Cincinnati, March 1999.
16. Schafer, M.P. PCR: Identifying H. capsulatum & Mycobacteria at Low Levels, Salt Fork Conference, November 1999.
17. Schafer, M.P. Molecular Approaches to Bacteria, Occupation Lung Diseases and Bio-Aerosols, Dose Response Relationships, NIOSH Conference, Morgantown, West Virginia, September, 2000. (invited)
18. Schafer, M.P. DNA Diagnostic Laboratory for the Detection of Microbial Agents, Food and Drug Administration, Cincinnati, Ohio, December, 2001. (invited)
19. Schafer, M.P. and Mathews, E.S. Quantitative Detection of Mycobacteria ssp. Using Real-Time Quantitative PCR and SYBR^R Green Chemistry, Salt Fork Conference, January, 2002.
20. Schafer, M.P. Rapid Detection and Characterization of Airborne Mycobacteria Particles, including M. tuberculosis H37 Ra Particles, Using PCR, Lawrence Livermore National Laboratory, Livermore, California, September, 2003. (invited)
21. Schafer, M.P. Rapid detection and determination of the aerodynamic size range of airborne mycobacteria associated with whirlpools. NIOSH Alice Hamilton Award Awards, April, 2005.

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In 1996, I was assigned, 0.5 FTE, to the engineering group to develop and scientifically lead a research effort to determine the efficacy of upper air ultraviolet germicidal irradiation to kill or inactivate airborne mycobacteria. A research project was developed research protocols prepared, etc. The multi-disciplinary effort was awarded to the University of Colorado at Boulder to implement. Intensive interaction included directing aspects of the effort, problem solving scientific impasses and reviewing various experiments, reports, presentations, publications and dissertations. The publications to date are presented below. The work by Jordon Peccia involved dual funding, - i.e., NIOSH and the National Science Foundation.

1. Rahn R, Xu P, Miller S [1999]. Dosimetry of room-air germicidal irradiation using spherical actinometry . *Photochem. Photobiol.*,70:314-318.
2. Xu P, Miller S. Factors influencing effectiveness of ultraviolet germicidal irradiation for inactivating airborne bacteria: air mixing and ventilation efficiency. In: *Indoor Air '99: Proceedings of the 8th International Conference on Indoor Air Quality and Climate*, G. Raw, C. Aizlewood and P. Warren , Eds., 1999;2,393-398.
3. Hernandez M, Miller S, Landfear D, Macher J [1999]. A combined fluorochrome method for quantitation of metabolically active and inactive airborne bacteria. *Aerosol Sci. Technol.*, 30:145-160.
4. Peccia, J [2000]. The response of airborne bacteria to ultraviolet germicidal radiation [Ph.D. Dissertation]. Boulder, Colorado: University of Colorado at Boulder, Department of Civil, Environmental, and Architectural Engineering.
5. Xu P, Peccia J, Hernandez M, Miller S [2000]. The efficacy of upper room ultraviolet germicidal irradiation in inactivating airborne microorganisms under incomplete mixing conditions. In: *Proceedings of Engineering Solutions to Indoor Air Quality Problems*, Raleigh, NC, July 17-10.
6. Miller S, Macher J [2000]. Evaluation of a methodology for quantifying the effect of room air ultraviolet germicidal irradiation on airborne bacteria. *Aerosol Sci. Technol.*, 33:274-295.
7. Xu, P [2001]. Ultraviolet germicidal irradiation for preventing infectious disease transmission [Ph.D. Dissertation]. Boulder, Colorado: University of Colorado at Boulder, Department of Civil, Environmental and Architectural Engineering.
8. Peccia J, Hernandez M [2001]. Photoreactivation in airborne *Mycobacterium parafortuitum*. *Appl. Environ. Microbiol.*, 67:4225-4232.
9. Peccia J, Werth H, Miller S, Hernandez M [2001]. Effects of relative humidity on the ultraviolet induced inactivation of airborne bacteria. *Aerosol Sci. Technol.*, 35:728-740.
10. Xu P, Peccia J, Fabian P, Martyny J, Fennelly K, Hernandez M, Miller S [submitted]. Efficacy of ultraviolet germicidal irradiation of upper-room air inactivating airborne bacterial spores and mycobacteria in full-scale studies.
11. Kujundzic, E., Howard, C., Hernandez, M., Miller S [submitted]. Effectiveness of portable air cleaners and upper room ultraviolet germicidal irradiation for infection control.

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BIOGRAPHICAL SKETCH

03-30-2006

Patricia L. Schleiff, M.S.	Health Statistician Tel: (304) 285 5874 E-mail: PSchleiff@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of North Carolina – Wilmington, Wilmington, NC		1983-1985	Marine Biology & Mathematics
West Virginia University, Morgantown, WV	B.A.	1985-1988	Mathematics
West Virginia University, Morgantown, WV	M.S.	1988-1990	Applied Statistics

Positions

1990-1991	Biostatistician, Biostatistics and Epidemiology Department, Armed Forces Institute of Pathology, Walter Reed Army Medical Center
1991-1999	Statistician (Health), Epidemiological Investigations Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
1999-2003	Supervisory Statistician (Health), Statistics Team, Field Studies Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
2003-Date	Statistician (Health), Public Health Surveillance Team, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

1996	Alice Hamilton Award for NIOSH criteria for a recommended standard: Occupational exposure to respirable coal mine dust DHHS (NIOSH) Publication No. 95-106, 1995.
1998	Alice Hamilton Award – Engineering and Physical Sciences Category for “Surface composition of respirable silica particles in a set of US anthracite and bituminous coal mine dusts” published in <i>Journal of Aerosol Science</i> , 28:689-696, 1997.
2005	International Academy of Indoor Air Sciences Best Paper Award – Indoor Air Journal 2002-2004 for “Building-related respiratory symptoms can be predicted with semi-quantitative indices of exposure to dampness and mold” published in <i>Indoor Air</i> Vol. 14 6:425-433, 2004.

Peer Reviewed Publications

1. Frisman D.M., McCarthy W., Schleiff P.L., Buckner S.B., Nocilo J.D., T. O'Leary: Immunocytochemistry in the differential diagnosis of effusions: Use of logistic regression to select a panel of antibodies to distinguish adenocarcinomas from mesothelial proliferations. *Mod Pathol* 6, 3:179-184, 1993.
2. Vallyathan V., Brower P.S., Green F.H.Y, Attfield M.D.: Radiographic and pathologic correlation of coal workers' pneumoconiosis. *Am J Respir Crit Care Med*, 154:741-748, 1996.
3. Huang S., Hubbs A.F., Lewis D.M., Brower P.S., Vallyathan V.: Inhibitory action of cytokine preservatives on chemiluminescence assays. *Toxicol Met* 6, 3:157-161, 1996.
4. Henneberger P., Brower P., Kreiss K., Parker J., Steenland K.: Sarcoidosis among US Navy enlisted males, 1965-1993. *MMWR*, 46 23:539-543, 1997.
5. Vallyathan V., Green F.H.Y, Brower P., Attfield M.: The role of coal mine dust exposure in the development of pulmonary emphysema. *Ann Occup Hyg*, 41 1:352-357, 1997.

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6. Harrison J.C., Brower P.S., Attfield M.D., Doak C.B., Keane M.J., Grayson R.L., Wallace W.E.: Surface composition of respirable silica particles in a set of U.S. anthracite and bituminous coal mine dusts. *J Aer Sci*, 28 4:689-696, 1997.
7. Brower P.S., M.D. Attfield: Reliability of occupational history information for US coal miners, 1969-1977. *Am J Epidemiol*, 148 9:920-926, 1998.
8. Schleiff P.L., Park J.H., Yereb D.: Hazard evaluation and technical assistance report: Nassau Community College, Garden City, New York. Cincinnati, OH: Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, NIOSH HETA Report No. 2000-0168-2871, 2002.
9. Wallace W.E., Gupta N.C., Hubbs A.F., Mazza S.M., Bishop H.A., Keane M.J., Battelli L.A., Ma J., Schleiff P.: Cis-4-[¹⁸F]fluoro-L-proline PET imaging of pulmonary fibrosis in a rabbit model. *J Nucl Med*, 43:413-420, 2002.
10. Kreiss K., Gomaa A., Kullman g., Fedan K., Schleiff P., Simoes E., Enright P.: Endemic bronchiolitis obliterans syndrome in microwave popcorn workers: A new occupational lung hazard. *Am J Respir Crit Care Med*, 165:A461, 2002.
11. J.H. Park, P.L. Schleiff, M.D. Attfield, J.M. Cox-Ganser, K. Kreiss: Building-related respiratory symptoms can be predicted with semi-quantitative indices of exposure to dampness and mold. *Indoor Air*, 14 6:425-433, 2004.

Book Chapters and Invited Reviews

Wallace W.E., Keane M.J., Harrison J.C., Stephens J.W., Brower P.S., Grayson R.L., Vallyathan V., M.D. Attfield: Surface properties of respirable silicate and aluminosilicate dusts affecting bioavailability [Chapter]. NATO ASI Series H85. in: Cellular and Molecular Effects of Mineral and Synthetic Dusts and Fibres, Edited by JMG Davis and MC Jaurand. Springer-Verlag Berlin Heidelberg, 1994.

NIOSH Numbered Documents

Kuempel E.D., Althouse R., Attfield M.D., Bartley D.L., Brower P.S., Castranova V., Chain H.S., Coffey C.C., Dames B.L., Doak C.B., Dower J.M., Hankinson J.L., Hewett P.A., Hale J., Jacobsen M., Niemeier R.W., Parker J.E., Reed L.D., Richards T.B., Smith R.J., Soderholm S.C., Wagner G.R., Weber K.C.: NIOSH criteria document for a recommended standard: Occupational exposures to respirable coal mine dust. Department of Health and Human Services, (NIOSH) Publication No. 95-106, 1995.

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BIOGRAPHICAL SKETCH

07/20/2006

George H. Schnakenberg, Jr., Ph.D.	Research Physicist Tel: 412-386-6655 E-Mail: GSchnakenberg@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Carnegie Institute of Technology	B.S	1966	Physics
Carnegie-Mellon University	M.S	1968	Physics
Carnegie-Mellon University	Ph.D	1972	Solid State Physics

Positions

10/1/96 – Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

2003 Bronze Award for Excellence as member of an "Outstanding Team", Federal Executive Board

---- Special Achievement Awards for efforts on Mining Automation

1993 Meritorious Service Award, US Department of the Interior, February 1993

1982 Pollution Engineering 5 Star award (one of 50) for outstanding product of the year, 1982, Andros Portable CO₂ Detector

1981 IR100 award co-recipient for Personal NO_x sampler, 1981 (which is currently the state of the art NIOSH sampling method)

Other Experience and Professional Memberships

American Association of Physics Teachers

Peer Reviewed Publications:

1. Schnakenberg GH [2006]. An integrated approach for managing diesel emissions controls for underground metal mines. In: Mutmanský JM and Ramani RG, ed. Proceedings of the 11th US/North American Mine Ventilation Symposium, The Pennsylvania State University, University Park, PA, USA 5-7 June 2006, p121.
2. Bugarski AD, Schnakenberg GH, and Patts LD. Implementation of diesel particulate filter technology in underground metal and nonmetal mines. In: Mutmanský JM and Ramani RG, ed. Proceedings of the 11th US/North American Mine Ventilation Symposium, The Pennsylvania State University, University Park, PA, USA 5-7 June 2006, p127.
3. Bugarski A, Schnakenberg G, Noll J, Mischler S, Crum M, and Anderson R [2005]. Evaluation of Diesel Particulate Filter Systems and Biodiesel Blends in an Underground Mine. Society of Mining Engineers Transactions, Vol. 318.
4. Schnakenberg GH Jr. [2001]. Estimate of technically feasible DPM levels for underground metal and nonmetal mines. Mining Engineering. September 2001. pp 45 – 51.

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NIOSH Publications and Technical Reports:

1. Bugarski AD, Schnakenberg GH, Noll JD, Mischler SE, Patts LD, Hummer JA, and Vanderslice SE [2006]. Effectiveness of Selected Diesel Particulate Matter Control Technologies for Underground Mining Applications: Isolated Zone Study, 2004. RI 96xx. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Pittsburgh Research Laboratory, DHHS (NIOSH) Publication No. 2006-1xx. (at the printers as of July 20, 2006)
2. Bugarski AD, Schnakenberg GH, Noll JD, Mischler SE, Patts LD, Hummer JA, and Vanderslice SE [2006]. Effectiveness of Selected Diesel Particulate Matter Control Technologies for Underground Mining Applications: Isolated Zone Study, 2003. RI 9667. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Pittsburgh Research Laboratory, DHHS (NIOSH) Publication No. 2006-126.
3. Schnakenberg GH and Bugarski AD [2002]. Review of Technology Available to the Underground Mining Industry for Control of Diesel Emissions. IC 9462. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, Pittsburgh Research Laboratory, DHHS (NIOSH) Publication No. 2002-154.

Other-Presentations and Proceedings to Attendees:

1. Mischler SE, Bugarski A, and Schnakenberg G [2005]. Diesel Particulate Matter Control Technologies and Measurements in US Mines. Proceeding of 8th International Mine Ventilation Congress, Brisbane, Queensland, Australia, July 6-8 (in-print).
2. Stachulak JS, Conard BR, Bugarski AD, and Schnakenberg GH Jr. [2005]. Long-Term Evaluation of Diesel Particulate Filter Systems at Inco's Stobie Mine. Proceeding of 8th International Mine Ventilation Congress, Brisbane, Queensland, Australia, July 6-8 (in-print).
3. Schnakenberg GH Jr. and Bugarski AD [2004]. Testing Diesel Emission Control Techniques. Proceedings of Diesel Particulate in Mining Conference. Yeppoon, Queensland, Australia: Australian Journal of Mining.
4. Bugarski AD, Schnakenberg GH, Noll JD, Mischler S, Patts L, Hummer J, Vanderslice S, Crum M, and Anderson R [2004]. The Effectiveness of Selected Technologies in Controlling Diesel Emissions in an Underground Mine – Isolated Zone Study at Stillwater Mining Company's Nye Mine. Proceedings of Diesel Particulate in Mining Conference. Yeppoon, Queensland, Australia: Australian Journal of Mining.
5. Noll JD, Bugarski AD, Schnakenberg GH, Patts LD, and Mischler, S [2004]. Elemental Carbon Content in Diesel Particulate Matter and the Effects of Control Technologies on Particulate Emissions. Poster Session, AAAR 2004 Annual Conference, October 4 - 8, 2004, Atlanta, Atlanta GA. Other (poster presentation).
6. Bugarski AD and Schnakenberg GH [2004]. Preliminary Results from Isolated Zone Testing of Diesel Emissions Control Technologies at Stillwater Nye Mine - September 2004 Study. Proceedings of 10th Mining Diesel Emissions Conference (MDEC), Markham, Ontario, Canada, October 13-16.
7. Schnakenberg GH and Bugarski AD [2004]. Evaluation of Diesel Particulate Filter Systems at INCO's Stobie Mine - June 2004 Study. Presented at MDEC, Markham, Ontario, Canada. October 13-16. Proceedings of 10th Mining Diesel Emissions Conference (MDEC), Markham, Ontario, Canada, October 13-16.
8. Bugarski AD and Schnakenberg GH [2002]. Evaluation of Diesel Particulate Filter Systems at INCO Stobie Mine. Mining Diesel Emissions Conference MDEC 2002, Markham, Ontario.

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BIOGRAPHICAL SKETCH		10-04-2006	
Teresa M. Schnorr, Ph.D.		Director, Division of Surveillance, Hazard Evaluations and Field Studies, NIOSH Tel: (513) 841 4428 E-mail: ths1@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Indiana University, Bloomington, IN	B.A. B.A.	1975 1975	Anthropology Biology
University of Pennsylvania, Philadelphia, PA	M.S. Ph.D.	1982 1984	Epidemiology Epidemiology

Positions

1982 – 1984	Epidemic Intelligence Service Officer, NIOSH/CDC; Cincinnati, OH
1984 – 1988	Epidemiologist, Industrywide Studies Branch, DSHEFS/NIOSH/CDC; Cincinnati, OH
1988 – 1995	Chief, Epidemiology I Section, Industrywide Studies Branch, DSHEFS/NIOSH/CDC; Cincinnati, OH
1995 – 2001	Assistant Chief, Industrywide Studies Branch, DSHEFS/NIOSH/CDC; Cincinnati, OH
2001 – 2004	Acting Chief, Industrywide Studies Branch, DSHEFS/NIOSH/CDC; Cincinnati, OH
2004 – Present	Director, Division of Surveillance, Hazard Evaluations and Field Studies, NIOSH/CDC; Cincinnati, OH

Honors

2006	National Occupational Research Agenda, Partnering Award for Worker Health and Safety – for Collaborative Partnerships of the Hazardous Drug Working Group
2005	U.S. Public Health Service Outstanding Service Medal & Outstanding Unit Citation Medal
2004	U.S. Department of Health and Human Services Secretary's Award for Distinguished Service – for controlling the spread of SARS
2002	U.S. Public Health Service Outstanding Unit Citation Medal
2001	U.S. Department of Health and Human Services Secretary's Recognition Award for Heroism, Exceptional/Volunteer Service - for protecting emergency responders from hazards at the World Trade Center Site
1995	Alice Hamilton Science Award for Occupational Safety and Health, Honorable Mention
1995	U.S. Public Health Service Commendation Medal
1993	U.S. Public Health Service Citation Medal
1993	Alice Hamilton Science Award for Occupational Safety and Health, Co-author
1992	U.S. Public Health Service Commendation Medal
1992	Alice Hamilton Science Award for Occupational Safety and Health, Honorable Mention
1987	U.S. Public Health Service Achievement Medal

Selected Peer Reviewed Publications

1. Prince MM, Ruder AM, Hein MJ, Waters MA, Whelan EA, Nilsen, N, Ward EM, Schnorr TM, Laber PA, Davis-King K. Mortality and exposure response among 14,458 electrical capacitor manufacturing workers exposed to polychlorinated biphenyls (PCBs). *Environ Health Perspect* 2006; 114: 1508-1514. doi:10.1289/ehp.9175
2. Robinson C, Schnorr TM, Cassinelli RT 2nd, Calvert GM, Steenland NK, Gersic CM, Schubauer-Berigan MK. Tenth Revision U.S. Mortality Rates for Use with the NIOSH Life Table Analysis System. *J Occup Environ Med* 2006 Jul; 48(7):662-7

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3. Steenland K, Hein M, Cassinelli R, Prince M, Nilsen N, Whelan E, Waters M, Ruder A, Schnorr T. Polychlorinated biphenyls and neurodegenerative disease mortality in an occupational cohort. *Epidemiology*. 2006 Jan;17(1):8-13.
4. Lawson CC, Schnorr TM, Whelan EA, Dankovic DA, Deddens JA, Piacitelli LA, Huang, K, Sweeney MH, Connally LB, Fingerhut MA.. Paternal Occupational Exposure to 2,3,7,8 –tetrachlorodibenzo-*p*-dioxin: birthweight and birth defects. *Environ Health Persp* 2004; 112(14): 1403-08.
5. Sanderson WT, Stoddard RR, Echt AS, Piacitelli CA, Kim D, Horan J, Davies MM, McCleery RE, Muller P, Schnorr TM, Ward EM, Hales TR. *Bacillus anthracis* Contamination and Inhalational Anthrax In a Mail Processing and Distribution Center--Washington, D.C. *J Appl Microbiol*. 2004; 96(5):1048-56.
6. Whelan EA, Lawson CC, Grajewski B, Petersen MR, Pinkerton LE, Ward EM, Schnorr TM. Prevalence of respiratory symptoms among female flight attendants and teachers. *Occup Environ Med* 2003;62:929-934.
7. Schnorr TM, Lawson CC, Whelan EA, Dankovic DA, Deddens JA, Piacitelli LA, Reefhuis J, Sweeney MH, Connally LB, Fingerhut MA.. Paternal Chemical Herbicide Exposure and Spontaneous Abortion. *Environ Health Perspect* 2001;109; 1127-1132.
8. Pinkerton LE, Biagini RE, Ward EM, Hull RD, Deddens JA, Boeniger MF, Schnorr TM, MacKenzie BA, Luster MI. Immunologic findings among lead-exposed workers. *Am J Ind Med* 33:400-408, 1998.
9. Calvert GM, Ward EM, Schnorr TM, Fine LJ. Cancer Risks Among Workers Exposed to Metalworking Fluids: A Systematic Review. *Am J Ind Med* 1998;33:282-292.
10. Grajewski B, Schnorr TM, Reefhuis J, Silvan A, Roeleveld N, Murray WE, Conover DL. Work with Video Display Terminals and the Risk of Low Birthweight and Preterm Birth. *Am J Ind Med* 1997;32:681-688.
11. Schnorr TM & Steenland K. Identifying Deaths before 1979 Using the Social Security Administration Death Master File. *Epidemiology* 1997;8:321-323.
12. Whelan EA, Piacitelli GM, Gerwell B, Schnorr TM, Mueller CA, Gittleman J, Matte TD. Elevated Blood Lead Levels in Children of Construction Workers. *Am J Public Hlth* 1997;87:1352-55.
13. Schnorr TM, Steenland K, Egeland GE, Boeniger M, Egilman D. Mortality of workers exposed to toluene diisocyanate in the polyurethane foam industry. *Am J Ind Med* 1996; 27:759-770.
14. Grajewski B, Whelan EA, Schnorr TM, Mouradian R, Alderfer R, Wild DK. Evaluation of Reproductive Function Among Men Occupationally Exposed to Stilbene Derivatives: I. Hormonal and Physical Status. *Am J Ind Med* 1996; 29:49-57.
15. Whelan EA, Grajewski B, Wild DK, Schnorr TM, Scott GMW, Alderfer R. Evaluation of Reproductive Function Among Men Occupationally Exposed to Stilbene Derivatives: II. Perceived Libido and Potency. *Am J Ind Med* 1996; 29:59-65.
16. Roscoe RJ, Salvan, A, Schnorr TM. Mortality Among Navajo Uranium Miners. *Am J Public Hlth* 1995;85(4):535-540.
17. Schnorr TM, Steenland K, Thun MJ, Rinsky RA. Mortality Among a Cohort of Antimony Smelter Workers. *Am J Ind Med* 1995;27(5):759-770.
18. Schnorr TM. 1993. Video Display Terminals and Adverse Pregnancy Outcomes. In: *Case Studies in Occupational Epidemiology*. Steenland K Ed., Oxford University Press, New York. pp. 7-20.
19. Stayner L, Smith R, Thun M, Schnorr TM, Lemen R. A Dose-Response Analysis and Quantitative Assessment of Lung Cancer Risk and Occupational Cadmium Exposure. *Annals of Epidemiology* 1992;2(3):177-194.
20. Schnorr TM, Grajewski BA, Hornung RW, Thun MJ, Egeland GM, Murray WE, Conover DL, Halperin WE. Video Display Terminals and the Risk of Spontaneous Abortion. *New England Journal of Medicine* 1991;324(11): 727-733.
21. Steenland KN, Schnorr TM. Availability and Accuracy of Surrogate Data on Decedents in Retrospective Mortality Studies. *J of Occupational Medicine* 1988;30(4):348-353.
22. Steenland KN, Schnorr TM, Beaumont JJ, Halperin W, Bloom T. Laryngeal Cancer Incidence and Exposure to Sulfuric and Other Acids. *Bri J Ind Med*. 1988;5:766-776.

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23. Thun MJ, Schnorr TM, Halperin WE. February 1986. Mortality Among A Cohort of U.S. Cadmium Production Workers - An Update. Proceedings of the Fifth International Cadmium Conference, San Francisco, California.
24. Thun MJ, Schnorr TM, Smith AB, Halperin WE, Lemen RA. February, 1985. Mortality Among A Cohort of U.S. Cadmium Production Workers - An Update. J Natl Cancer Inst. 1985;74:325-33.

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BIOGRAPHICAL SKETCH

03-30-2006

Christine R. Schuler, Ph.D.	Research Epidemiologist Tel: (304) 285 6072 E-mail: cschuler@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh, Pittsburgh, PA	B.S.	1986	Psychology
Temple University, Philadelphia, PA	M.A.	1990	Social psychology
University of North Carolina, Chapel Hill, NC	Ph.D.	1999	Epidemiology

Positions

- 1990-1992 Survey study director, Institute for Survey Research, Temple University, Philadelphia, PA
- 1992-1993 Survey research consultant, Institute for Survey Research, Temple University, Philadelphia, PA
- 1992-1998 Research and teaching assistant, Department of Epidemiology, School of Public Health, University of North Carolina, Chapel Hill, NC (EPA/UNC Cooperative Agreement CR820076)
- 1998-1999 Health scientist (epidemiologist), Clinical Research Branch, Human Studies Division, National Health Effects and Environmental Research Laboratory (US EPA), Chapel Hill, NC
- 1999 Postdoctoral fellow, Department of Epidemiology, School of Public Health, University of North Carolina, Chapel Hill, NC
- 1999-Date Research epidemiologist, Field Studies Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV

Honors

- 2005 1st annual Bullard-Sherwood Research-to-Practice (r2p) Awards, Knowledge category, honorable mention. Understanding and Preventing Beryllium Sensitization and Chronic Beryllium Disease: CR Schuler (project officer), K Kreiss, GA Day, PK Henneberger, MD Hoover, M Kitt, R Sparks, ML Stanton, AB Stefaniak, B Tift, A Velilla, EA McCanlies, A Weston, and K Cummings. Alice Hamilton Awards, April 2005.

Other Experience and Professional Memberships

- 2005 Scientific Committee. 2005 International Beryllium Research Conference, Montreal, Quebec, Canada American Thoracic Society Subcommittee. Chronic beryllium disease: detection, diagnosis, assessment of severity, management, treatment and prevention strategies: an official ATS consensus statement.

Peer Reviewed Publications

1. McCanlies E., Ensey J.S., Schuler C.R., Kreiss K., Weston A.: The association between *HLA-DPBI^{Glu69}* and chronic beryllium disease and beryllium sensitization. *Am J Ind Med*, 46:95-103, 2004.
2. Stefaniak A.B., Hoover M.D., Day G.A., Dickerson R.M., Peterson E.J., Kent M.S., Schuler C.R., Breyse P.N., Scripsick R.C.: Characterization of physicochemical properties of beryllium aerosols associated with chronic beryllium disease. *J Environ Monit*, 6:523-532, 2004.
3. Schuler C.R., Kent M.S., Deubner D., Berakis M.T., McCawley M., Henneberger P.K., Rossman M.D., Kreiss K.: Process-related risk of beryllium sensitization and disease in a copper-beryllium alloy facility. *Am J Ind Med*, 47:195-205, 2005.

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4. Weston A., Snyder J., McCanlies E.C., Schuler C.R., Andrew M.E., Kreiss K., Demchuk E.: Immunogenetic factors in beryllium sensitization and chronic beryllium disease. *Mutat Res*, 592 1-2:68-78, 2005.
5. Stanton M.L., Henneberger P.K., Kent M.S., Deubner D.C., Kreiss K., Schuler C.R.: Sensitization and chronic beryllium disease among workers in copper-beryllium distribution centers. *J Occup Environ Med*, 48 2 :204-211, 2006.
6. Schuler C.R., McDonnell W.F., Hertz-Picciotto I., Kupper L.L., Henderson F.W., Kehrl H.K., Shy C.M.: The effect of ozone exposure on daily lung function in a panel of moderate asthmatics. (undergoing revisions in response to reviewers' comments).
7. Day G.A., Dufresne A., Stefaniak AB, Schuler C.R., Stanton M.L., Miller W.E., Kent M.S., Deubner D.C., Kreiss K., Hoover M.D.: Exposure pathway assessment at a copper-beryllium processing facility. *Ann Occup Hyg*, 2006 (resubmitted with revisions).
8. Cummings K.J., Deubner D.C., Day G.A., Henneberger P.K., Kitt M., Kent M., Kreiss K., Schuler C.R.: Enhanced preventive program at a beryllium ceramics plant reduces beryllium sensitization among new workers. *Occup Environ Med J*, 2006 (submitted).

BIOGRAPHICAL SKETCH

07-13-2006

Paul A. Schulte, Ph.D.	Director, Education and Information Division Tel: (513) 533-8302 E-Mail: PSchulte@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Toronto	A.B.	1969	Zoology/Geography
University of Cincinnati	M.S.	1972	Health Planning
University of Cincinnati	Ph.D.	1983	Epidemiology

Positions

- 1996-Present Director, Education and Information Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio
- 1995-1996 Acting Director, Education and Information Division, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio
- 1984-1995 Chief, Screening and Notification Section, Industrywide Studies Branch, Division of Surveillance, Hazard Evaluations and Field Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio
- 1978-1984 Epidemiologist, Medical Section, Hazard Evaluations and Technical Assistance Branch, Division of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio
- 1975-1978 Criteria Manager (Epidemiologist), Criteria Development Branch, Division of Criteria Documentation and Standards Development, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio

Honors

- 1989 American College of Occupational Medicine, Adolph G. Kammer Merit in Authorship Award
- 1993 Alice Hamilton Science Award for Occupational Health and Safety-Honorable Mention
- 1994 Alice Hamilton Science Award for Occupational Health and Safety-Honorable Mention
- 2001 Charles C. Shepard Science Award Nominee
- 2002 Secretary's (of the Department of Health and Human Services) Award for Distinguished Service
- 2006 American College of Occupational and Environmental Medicine Adolph G. Kammer Merit in Authorship Award

Other Experience and Professional Memberships

- 2005-Present Coordinator, Nanotechnology Research Center, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio
- 2005 Co-chair WHO Workshop on Mechanisms of Fibre Carcinogenesis and Assessment of Chrysotile Asbestos Substitutes. Lyon, France, November 8-12, 2005
- 2002-2004 Member, California Environmental Health Tracking Expert Group
- 2002-Present Member, Federal liaison for the NRC Committee on Emerging Issues and Data on Environmental Contaminants
- 1998-2001 Member WHO Task Group on Environmental Health Criteria for Biomarkers in Risk Assessment: Validity and Validation

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Peer Reviewed Publications

1. Schulte P.A.: Some Implications of genetic biomarkers in occupational epidemiology and practice. *Scand J Work Environ Health*, 30(1):71-79, Feb 2004
2. Dewan P.K., Fry A.M., Laserson K. ... Schulte P.A., et al.: Inhalation anthrax outbreak among postal workers, Washington, D.C., 2001. *Emerg Infect* 8(10):1066-1072, Oct 2002. <http://www.cdc.gov/ncidod/EID/vol8no10/20-0330.htm>.
3. Schulte P.A.: Validation of biomarkers for environmental health and risk assessment. In Biomarkers in Risk Assessment: Validity and Validation. Environmental Health Criteria 222, Geneva: World Health Organization, pp. 202-234, 2001.
4. Schulte P.A.: Molecular epidemiology of occupational and environmental lung disease. *Ann Occ Hyg* Vol 41, Suppl 1, pp 1-6, 1997
5. Hayes R.B., Klein S., Suruda A., Schulte P.A., Boeniger M., Stewart P., Livingston G.K., Oesch F.: 0⁶-Alkylguanine DNA Alkytransferase activity in student embalmers. *Am J Ind Med*, 31(3):361-365, Mar 1997.
6. Steenland K., Levine J., Sieber K., Schulte P.A., Aziz D.: Incidence of TB infection among NY state prison employees. *Am J Pub Health*, 87(12):2012-2017, Dec 1997.
7. Schulte, P.A., Talaska G.: Validity criteria for the use of biological markers of exposure to chemical agents in environmental epidemiology. *Toxicology*, 101(1/2):73-88, Jul 1995.
8. Schulte P.A., Walker J.T., Boeniger M., Tsuchiya Y., Halperin W.E.: Molecular cytogenetic and hematologic effects of ethylene oxide in hospital workers. *J Occup Environ Med*, 37(3):313-320, Mar 1995.
9. Suruda A., Schulte P.A., Boeniger M., Hayes R.B., Livingston G.K., Steenland K., Stewart P., Herrick R., Douthitt D., Fingerhut M.A.: Cytogenetic effects of formaldehyde exposure in students of mortuary science. *Cancer Epidemiol Biomarkers Prev*, 2(5):453-460, Sep 1993.
10. Schulte, P.A.: The use of biological markers in occupational health research and practice. *J Toxicol and End Health*, 40(2-3):359-366, Oct 1993.
11. Schulte P.A., Boeniger M., Walker J.T., Schober S.E., Pereira M.A., Gulati D.K., Wojciechowski J.P., Garza A., Froelich R., Strauss G., Halperin W.E., Herrick R., Griffith J.: Biological markers in hospital workers exposed to low levels of ethylene oxide. *Mutat Res*, 278(4):237-251, Apr 1992.
12. Henry C.J., Fishbein L., Meggs W.J., Ashford N.A., Schulte P.A., Anderson H., Osborne J.S., Sepkovic D.W.: Approaches for Assessing Health Risks from Complex Mixtures in Indoor Air: A Panel Overview. *Environ Health Perspect*, 95:135-143, Nov 1991.
13. Frederick L., Schulte P.A., Apol A.: Investigation and control of occupational health hazards associated with the use of spirit duplicators. *Am Ind Hyg Assoc J*, 45(1):51-5, Jan 1984.

Book Chapters and Invited Reviews

1. Perera F., Schulte, P.A., Santella R.M., Brenner D. DNA adducts and other biomarkers in assessing the risk of complex mixtures. In: M.D. Waters, S. Nesnow, J. Lades, et al. (eds). "Genetic Toxicology of Complex Mixtures" VI. New York: Plenum Press, 1990.
2. Schulte P.A.: The value of health registries in monitoring pollutant-related diseases. In Environmental Impacts on Human Health. The agenda for long-term research and development. New York: Praeger Publications, pp 139-64, Jun 1987.
3. Schulte P.A.: Criteria for a recommended standard ... occupational exposure to fibrous glass. National Institute for Occupational Safety and Health, 1977, DHEW Pub No. (NIOSH) 77-152.
4. Schulte P.A.: Criteria for a recommended standard ... occupational exposure to tetrachloroethylene. National Institute for Occupational Safety and Health, 1976, DHEW Pub. No. 76-185.

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BIOGRAPHICAL SKETCH

6-06-2006

Teresa A. Seitz, M.P.H., C.I.H.		Supervisory Industrial Hygiene Team Lead Tel: (513) 841-4597 E-mail: tes2@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Rhode Island, Kingston, RI	B.S.	1981	Plant and Soil Science
San Diego State University, Graduate School of Public Health, San Diego, CA	M.P.H.	1987	Industrial Hygiene

Positions

1987-1990 Industrial Hygienist, Division of Surveillance, Hazard Evaluations and Field Studies (DSHEFS), National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC), Cincinnati, OH

1990-2005 Group Leader, Industrial Hygiene Section, CDC/NIOSH/DSHEFS, Cincinnati, OH

2005-present Supervisory Industrial Hygiene Team Lead, CDC/NIOSH/DSHEFS, Cincinnati, OH

Honors

1987 Outstanding Graduate, Graduate School of Public Health, SDSU

1989 US Public Health Service (PHS) Citation Plaque

1991-2003 PHS Unit Commendation (5)

1994 ACGIH John J. Bloomfield Award

1996 PHS Commendation Medal

2001 DHHS Secretary Recognition Award for Heroism/Volunteer Service

2002-2005 PHS Outstanding Unit Citation (2)

2002 PHS Crisis Response Service Award (2)

2002 ACGIH Meritorious Achievement Group Award

2002 Cumming Award Plaque

2004 CDC/NCID Recognition Award

Other Experience and Professional Memberships

American Conference of Governmental Industrial Hygienists (ACGIH), ACGIH Infectious Agents Committee Chair

Commissioned Officers Association, National and Local

Environmental Health Officer Professional Advisory Committee

American Board of Industrial Hygiene

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Peer-reviewed publications

1. Lenhart S.W., Seitz T.A., Trout D., Bollinger N.: Issues affecting respirator selection for workers exposed to infectious aerosols: emphasis on healthcare settings. *Applied Biosafety* 9(1):20-36, 2004.
2. Ofner M., Lem M., Sarwal S., Vearncombe M., Simor A., SARS Investigative Team, CDC.: Cluster of Severe Acute Respiratory Syndrome cases among protected health-care workers --- Toronto, Canada, April 2003. *MMWR Weekly*, 52 (19):433-436. May 16, 2003.
3. Sanderson W.T., Hein M.J., Taylor L., Curwin B.D., Kinnes G.M., Seitz T.A., et al.: Surface sampling methods for *Bacillus anthracis* spore contamination. *Emerg Infect Dis* [serial online] Oct 8(10), 2002.
4. CDC: Comprehensive procedures for collecting environmental samples for culturing *Bacillus anthracis*, Revised April 2002. T. Seitz, contributing author/editor. <http://www.bt.cdc.gov/Agent/Anthrax/environmental-sampling-apr2002.asp>, 2002.
5. Page E.H., Martinez K.F., Seitz T.A., et.al.: Public Health Dispatch: Update: Cutaneous anthrax in a laboratory worker --- Texas, 2002. *MMWR Weekly*, 51(22):482. June 7, 2002.
6. Mackey T.A., Page E.H., Martinez K.F., Seitz T.A., et.al.: Suspected cutaneous anthrax in a laboratory worker --- Texas, 2002. *MMWR Weekly*, 51(13):279-281. April 5, 2002.
7. NIOSH: Health Hazard Evaluations: Tuberculosis 1990 to 1999. T. Seitz, Editor and Contributing Project Officer. U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. *DHHS (NIOSH) Publication No. 2001-116*, 2001.
8. Seitz T., Mortimer V., Martinez K.: A tracer gas evaluation at a garment manufacturing facility with extensive transmission of tuberculosis. *Appl Occup Environ Hyg* 13(6):335-342, 1998.
9. Boudreau A.Y., Baron S.L., Steenland N.K., Van Gilder T.J., Decker J.A., Galson S.K., Seitz T.: Occupational risk of *Mycobacterium tuberculosis* infection in hospital workers. *Am J Ind Med* 32(5):528-534, 1997.
10. Ussery X.T., Bierman J.A., Valway S.E., Seitz T.A., DiFerdinando G.T., Ostroff S.M.: Transmission of Multidrug-resistant *Mycobacterium tuberculosis* among persons exposed in a medical examiner's office, New York. *Infect Control Hosp Epidemiol* 16:160-165, 1995.

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BIOGRAPHICAL SKETCH			
Anna A. Shvedova		Senior Staff Scientist – ATS1@cdc.gov (304) 285-6177	
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
MV Lomonosov Moscow State University	BS, MS	1970, 1971	Physiology, Biophysics
MV Lomonosov Moscow State University	Ph.D.	1975	Physiology
USSR Academy of Sciences, Moscow	D.Sc.	1988	Pathophysiology

Positions

1972-1978 Research Associate, Institute of Chemical Physics, USSR Academy of Sciences, Moscow
 1978-1990 Staff Research Scientist, Team Leader, Inst. of Chemical Physics, USSR Academy of Sci
 1990-1991 Research Associate, Department of Molecular and Cell Biology, UC Berkeley, CA 94806
 1991-1992 Pharmaceutical Consultant, Medicine INC, Southampton, PA 18966
 1992-1995 Research Associate, University of Pittsburgh, Pittsburgh, PA 15238
 1995-1996 Manager, Nutrition Research, General Nutrition Corporation (GNC), Pittsburgh, PA
 1996-1997 Assistance Professor, Reproductive Science, Univ. of Pittsburgh, Pittsburgh, PA 15213
 1997-Present Senior Staff Scientist, NIOSH, HELD/PPRB, Morgantown, WV
 2002-Present Associate Professor, Dept of Physiology and Pharmacology, WVU Morgantown, WV

Other Experience and Professional Memberships

2001-current Fellow Academy of Toxicological Sciences
 Society of Toxicology
 American Association for Advancement in Science
 International Society for Free Radical Research
 Society of Investigative Dermatology

Honors

1998 A-E SOT Merit Award
 1999 A-E SOT Merit Award
 2000 A-E SOT Merit Award
 2001 Public Communication Award, Society of Toxicology
 2006 Women in Toxicology Recognition SOT Award
 2006 Alison Hamilton Award for Excellence in Occupational Safety and Health Research

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Selected peer-reviewed publications (in chronological order).

(Publications selected from 90 peer-reviewed publications)

1. Kagan VE, Shvedova AA, Tyurina YY, Tyurin VA, Fabisiak JP, Schor NF. Peroxidation of phosphatidylserine in mechanisms of apoptotic signaling. *Redox Cell Biology & Genetics, Methods in Enzymology* 2002; 352:159-74.
2. Kagan VE, Kisin ER, Kawai K, Serinkan BF, Osipov AN, Serbinova EA, Wolinsky I, Shvedova AA. Towards mechanisms-based antioxidant interventions: lessons from natural antioxidants. *Ann NY Acad Sci* 2002; 959: 188-199.
3. Shvedova AA, Kisin ER, Murray AR, Smith S, Castranova V, Kommineni C. Enhanced oxidative stress in the skin of vitamin E deficient mice exposed to semi-synthetic metal working fluid. *Toxicology* 2002; 176(1-2):135-43.
4. Shvedova AA, Kisin ER, Murray AR, Goldsmith T, Reynolds JS, Castranova V, Frazer DG, Kommineni C. Metal working fluids: sub-chronic effects on pulmonary functions in B6C3F1 mice given vitamin E deficient and sufficient diets. *Toxicology* 2002; 177(2-3):285-297.
5. Shvedova AA, Kisin ER, Murray AR, Kommineni C, Castranova V, Mason RP, Kadiiska MB, Gunther MR. Antioxidant balance and free radical generation in vitamin e-deficient mice after dermal exposure to cumene hydroperoxide. *Chem Res Toxicol* 2002;15(11):1451-1459.
6. Tyurina YY, Tyurin VA, Shvedova AA, Fabisiak JP, Kagan VE. Peroxidation of phosphatidylserine in mechanisms of apoptotic signaling. *Methods Enzymol* 2002; 352:159-74.
7. Shvedova AA, Kisin ER, Murray AR., Schwegler-Berry D, Gandelsman VZ, Maynard A, Baron P, Castranova V. Exposure to carbon nanotube material: assessment of nanotube cytotoxicity using human keratinocyte cells. *J Tox EnvHealth* 2003; 66(20):1909-26.
8. Shvedova AA, Kisin E, Murray A, Schwegler-Berry D, Gandelsman V, Baron P, Maynard A, Gunter M, Castranova V. Exposure of human bronchial cells to carbon nanotubes caused oxidative stress and cytotoxicity. *Proceedings of the Meeting of the SFRR Europe (June 26-29, 2003), Vol. ISBN 88-7587-002; CD ISBN 88-7587-003-9.*
9. Shvedova AA, Kisin ER, Murray A, Kommineni C, Vallyathan V, Castranova V. Pro/antioxidant status in murine skin following topical exposure to cumene hydroperoxide throughout the ontogeny of skin cancer. *Biochemistry (Moscow)* 2004; 69 (1), 23-31.
10. Maynard AD, Baron PA, Foley M, Shvedova AA, Kisin ER, Castranova V. Exposure to carbon nanotube material i: aerosol release during the handling of unrefined single walled carbon nanotube material. *J Tox Env Health* 2004; 67(1):87-107.
11. Heck DE, Kagan VE, Shvedova AA, Laskin JD. An epigrammatic (abridged) recounting of the myriad tales of astonishing deeds and dire consequences pertaining to nitric oxide and reactive oxygen species in mitochondria with an ancillary massive concerning origins of apoptosis. *Toxicology* 2005; 208(2):259-71.
12. Shvedova AA, Kisin E, Mercer R, Murray A, Johnson VJ, Potapovich A, Tyurina Y, Gorelik O, Arepalli S, Schwegler-Berry D, Antonini J, Evans DE, Ku B-K, Ramsey D, Maynard A, Kagan V.E., Castranova V, Baron P. Unusual inflammatory and fibrogenic pulmonary responses to single walled carbon nanotubes in mice. *Am J Physiol Lung Cell Mol Physiol* 2005; 289, L698-L708.
13. Kagan VE, Bayir H, Shvedova AA. Nanomedicine and nanotoxicology: two sides of the same coin. *J Nanomedicine: Nanotechnology, Biology and Medicine* 2005; 1(4):313-316.

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14. Kagan VE, Potapovich AN, Osipov YY, Tyurina ER, Kisin D, Schwegler-Berry R, Mercer V, Castranova V, Shvedova AA. Direct and indirect effects of single walled carbon nanotubes on RAW 264.7 macrophages: role of iron. *Toxicol Lett* 165(1):88-100, 2006.
15. Jiang J, Kochanek PM, DeKosky ST, Greenberger JS, Shvedova AA, Kagan VE. Apoptotic interactions of cytochrome c: redox flirting with anionic phospholipids within and outside of mitochondria. *Biochim Biophys Acta*. 1757(5-6):648-59, 2006

Research Support

Ongoing Research Support

NIOSH ID: OH008282 NORA (Shvedova PI) (2004-2008). Pulmonary Toxicity of Carbon Nanotube Particles
NIOSH ID: 92700Y NORA (Shvedova PI) (2005-2010). Dermal Effects of Nanoparticles

Completed Research Support

NIEHS (NIH) #ES05651 Shvedova (PI) 1992 – 1995

Oxidative Stress and Pulmonary Toxicity Induced by Occupational Chemicals

NIOSH ID: 2-9278092 Shvedova (PI) 2000-2005 Mechanisms of Toxicity of Redox Reactive Intermediates During Enzymatic Metabolism of Occupational Chemicals in Skin

NIOSH ID: 8921 Shvedova (PI) 1997 – 2000. Dermal and Pulmonary Toxicity of Semi-Synthetic Metal Working Fluids

NIOSH ID: 7259 Shvedova (PI) 1999-2003. Chemical sensitizers are they also tumor promoters?

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BIOGRAPHICAL SKETCH

03-30-2006

Kanta Sircar, Ph.D.	CDC Regular Fellow Tel: (304) 285 6316 E-mail: ksircar@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of California at Berkeley, Berkeley, CA	B.A.	1995	Environmental Biology
Yale University, New Haven, CT	M.P.H.	1999	Environmental Health
Yale University, New Haven, CT	Ph.D.	2004	Occupational Health

Positions

1997-1999	Research Assistant, Yale Center for Perinatal, Pediatric & Environmental Epidemiology, West Haven, CT
1999-2000	Research Scientist, Veterans Administration Cardiovascular Clinical Trials Office, West Haven, CT
2000-2005	Research Associate, Data Analyst and Study Coordinator on Several Clinical and Epidemiology Studies, Yale Occupational and Environmental Medicine Program, New Haven, CT
2004-Date	Post-doctoral Fellow, Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Peer Reviewed Publications

1. Rabinowitz, P. M., Slade, M., Dixon-Ernst, C. Sircar, K., Cullen, M.: Impact of OSHA final rule-- recording hearing loss: an analysis of an industrial audiometric dataset. *J Occup Environ Med*, 45. 12: 1274-80, 2003.
2. Rabinowitz, P. M., Taiwo, O., Sircar, K., Aliyu, O., Slade, M.: The hearing of physicians. In Press, 2006.
3. Rabinowitz, P. M., Sircar, K., Tarbar, S. Hearing loss in migrant farm workers. *J Occup Environ Med*, In Press, 2006
4. Taiwo, O., Sircar, K., Slade, M., Cantley, L., Vegso, S., Rabinowitz, P., Fiellin, M., Cullen, M.: Incidence of asthma in aluminum workers. *J Occup Environ Med*, In Press, 2006.

Thesis

1. An analysis of environmental tobacco smoke in children in Katowice, Poland. Master's Thesis, Yale School of Public Health, 1999.
2. Chemical risk factors for coronary artery disease in the aluminum workers. Dissertation, Yale University, Submitted, 2004.

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BIOGRAPHICAL SKETCH

6-06-2006

John E. Snawder, Ph.D.		Research Toxicologist Tel: (513) 533-8496 E-mail: jts5@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Louisville, Louisville, KY.	B.S.	1980-85	Zoology
Mississippi State University, Starkville, MS.	M..S	1985-87	Zoology/ Toxicology
Mississippi State University, Starkville, MS.	Ph.D.	1987-90	Biology/Physiology,
National Center For Toxicological Research	Post-doc	1990-92	Toxicology
American Board of Toxicology	Diplomat	1995-pres.	Toxicology

Positions

1990-1992	Oak Ridge Associated Universities, Post-doctoral Fellow at USFDA, National Center for toxicological Research, Redfield, AR
1992-2001	Research Toxicologist, Biological Monitoring Laboratory Section , National Institute for Occupational Safety and Health, Cincinnati, OH
2001-2005	Supervisory, Research Toxicologist, Chief, Biological Monitoring Laboratory Section , National Institute for Occupational Safety and Health, Cincinnati, OH
2005-present	Supervisory, Research Toxicologist, Team leader, Biomonitoring Research Team , National Institute for Occupational Safety and Health, Cincinnati, OH

Honors

2000	Society of Toxicology, Risk Assessment Specialty Section, Best Presentation.
2001	Alice Hamilton Award, Biological Sciences Category,
2005	Alice Hamilton Award, Biological Sciences Category
1995-present	National Boards, American Board of Toxicology 1995, 2000, 2005

Other Experience and Professional Memberships

The Society of Toxicology
Greater Cincinnati Hazardous Materials Unit

Selected peer-reviewed publications

1. Shedlofsky SI, Tosheva RT, Snawder JE. Depression of constitutive murine cytochromes P450 by staphylococcal enterotoxin B. *Biochem Pharmacol.* 2000 59(10):1295-303
2. Snawder JE, Swaminathan S, Frederickson SM, Reznikoff CA and Savage RE Characterization of Cytochrome P450-dependent- and Glutathione-Transferase Activities in SV40-Immortalized Uroepithelial Cell Lines: Possible role in Transformation and Tumor Formation *Toxicology Methods* 2000 10(3):195-200 .
3. Snawder JE, Striley CAS, and Lipscomb JC. Interindividual variation of cytochrome p450 forms in human hepatic microsomes: correlation of individual forms with xenobiotic metabolism and implications in risk assessment. *Regulatory Toxicology and Pharmacology*, (2000) 32(2);200-209

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4. M. A. Butler, G. Burr, D. Dankovic, R. A. Lunsford, A. K. Miller, M. Nguyen, L. D. Olsen, D. D. Sharpnack, J. E. Snawder, L. Stayner, M. H. Sweeney, A. W. Teass, J. Wess and R. Zumwalde Hazard Review: Health Effects of Occupational Exposure to Asphalt, DHHS (NIOSH) Publication No. 2001-110 U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health.
5. Davis RR, Murphy WJ, Snawder JE, Striley CA, Henderson D, Khan A, Krieg EF. Susceptibility to the ototoxic properties of toluene is species specific. *Hear Res.* 2002 Apr;166(1-2):24-32..
6. Lipscomb JC, Teuschler LK, Swartout JC, Striley CAF, Snawder JE. Variance of Microsomal Protein and Cytochrome P450 2E1 and 3A Forms in Adult Human Liver. *Toxic Mech and Methods*, Jan-Mar 2003 13(1):45-51
7. Biagini RE, Schlottmann SA, Sammons DL, Smith JP, Snawder JE, Striley CA, MacKenzie BA, Weissman DN. Method for simultaneous measurement of antibodies to 23 pneumococcal capsular polysaccharides. *Clin Diagn Lab Immunol.* 2003 Sep;10(5):744-50
8. Biagini RE, Sammons DL, Smith JP, MacKenzie BA, Striley CA, Semenova V, Steward-Clark E, Stamey K, Freeman AE, Quinn CP, Snawder JE. Comparison of a multiplexed fluorescent covalent microsphere immunoassay and an enzyme-linked immunosorbent assay for measurement of human immunoglobulin antibodies to anthrax toxins. *Clin Diagn Lab Immunol.* 2004 Jan;11(1):50-5.
9. Biagini RE, Smith JP, Sammons DL, MacKenzie BA, Striley CA, Robertson SK, Snawder JE. Development of a sensitivity enhanced multiplexed fluorescence covalent microbead immunosorbent assay (FCMIA) for the measurement of glyphosate, atrazine and metolachlor mercapturate in water and urine. *Anal Bioanal Chem.* 2004 Jun;379(3):368-74. Epub 2004 Apr 30.
10. Biagini RE, Sammons DL, Smith JP, MacKenzie BA, Striley CA, Robertson SA, Snawder JE, Quinn CP. Simultaneous measurement of specific serum IgG responses to five select agents. *Anal Bioanal Chem.* 2005 Jun;382(4):1027-34. Epub 2005 Jun 2
11. Biagini RE, Sammons DL, Smith JP, MacKenzie BA, Striley CA, Snawder JE, Robertson SA, Quinn CP. Rapid, sensitive, and specific lateral-flow immunochromatographic device to measure anti-anthrax protective antigen immunoglobulin g in serum and whole blood. *Clin Vaccine Immunol.* 2006 May;13(5):541-6.

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BIOGRAPHICAL SKETCH

03-31-2006

Christine Whittaker Sofge, Ph.D.		Chief, Risk Evaluation Branch Tel: (513) 533 8439 E-mail: CSofge@cdc.gov	
EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Rensselaer Polytechnic Institute, Troy, New York	B.S.	1981	Biology
University of California, Irvine, California		1981-1984	Social Ecology
University of California, Irvine, California	Ph.D.	1991	Environmental Technology

Positions

1997-1999 NIOSH

2004-Date NIOSH

Professional Certifications:

1997-2002 Diplomate of the American Board of Toxicologists

National Committee Assignments

1997-1999 CDC Women's Health Committee

1997-1999 E Committee (OSHA-MSHA-NIOSH-EPA)

1997-1999 Federal Interagency Working Group on Women's Health and the Environment

1997-1999 Interagency Lead-Based Paint Task Force

1997-1999 National Cancer Advisory Board

1997-1999 National Cancer Institute Chemical Selection Working Group

1997-1999 NORA Cancer Research Methods Team

1997-1999 NORA Risk Assessment Methods Team

1997-1999 NORA Steering Committee

2004-Date E Committee (OSHA-MSHA-NIOSH-EPA)

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BIOGRAPHICAL SKETCH

07-10-2006

Leslie T. Stayner		Professor/Director of Epidemiology and Biostatistics Tel: (312) 355 3692 E-Mail: lstayner@uic.edu	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Massachusetts, Boston, MA	B.A.	1974-77	Biology
Harvard School of Public Health, Boston, MA	M.Sc.	1978-80	Epidemiology and Occupational Health and Safety
University of North Carolina	Ph.D.	1986-1989	Epidemiology with a formal minor in Biostatistics

Positions

1981-1988	Epidemiologist, National Institute for Occupational Safety and Health, Division of Surveillance, Hazard Evaluations and Field Studies, Industrywide Studies Branch, Cincinnati, OH
1988-89	Assistant Section Chief, National Institute for Occupational Safety and Health, Division of Surveillance, Hazard Evaluations and Field Studies, Industrywide Studies Branch, Cincinnati, OH
1989-1995	Assistant Director for Risk Assessment, National Institute for Occupational Safety and Health, Division of Standards Development and Technology Transfer, Cincinnati, OH
2001-2002	Visiting Scientist, International Agency for Research on Cancer, Cancer Identification and Evaluation Unit, Lyon, France
1995-2003	Branch Chief, Risk Evaluation, Education and Information Division, Cincinnati, OH
2003-Present	Professor and Director of Epidemiology and Biostatistics, University of Illinois School of Public Health, Chicago, IL

Honors

1977	Magna cum Laude, University of Massachusetts
1986	NIOSH Log Term Training Award
1989	NIOSH Special Service Award for Conduct of the Nitroglycerin Study
1989	NIOSH Alice Hamilton Science Award Winner
1990	NIOSH Superior Performance Award
1993	NIOSH Nominee for the CDC Charles Shepard Award
1993	NIOSH Alice Hamilton Science Award Winner
1994	NIOSH Alice Hamilton Science Award Winner
1995	NIOSH Nominee for the CDC Charles Shepard Award
1996	Finalist CDC Statistical Science Award
1998	NIOSH Special Act Award for creating a risk assessment program at NIOSH
1999	NIOSH Nominee for the CDC Charles Shepard Award
2000	NIOSH Special Act Award for organizing workshop on "Future Research for Improving Risk Assessment Methods"
2001	Visiting Scientist Award of the International Agency for Research on Cancer (IARC) in Lyon, France

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2002 Honorable mention for the NIOSH Alice Hamilton Award

Other Experience and Professional Memberships

1991 Instructor on Epidemiology and Risk Assessment at the Workshop on Occupational Safety and Health Programming, San Juan, Puerto Rico

1995 Instructor in IARC Course on Advanced Methods in Occupational Epidemiology, Lyon, France

2000 Instructor in NIVA Course on Cancer Risk Assessment, Finland

1995, '97, 2000 Instructor in NIVA Course on Risk Assessment and Risk Management in the Working Environment, Denmark

1996-2002 Adjunct Faculty, University of Michigan School of Public Health, Summer Program for Course on Environmental Epidemiology and Risk Assessment, Ann Arbor, MI

2002 Lecturer in course on New Methods in Epidemiology, Barcelona, Spain

2002 Lecturer in course on Epidemiology and Planning of Silica Research Studies, Santa Margherita, Italy

Other Professional Activities

1984 Chairperson of the Epidemiology Sub-Group, Interagency Risk Management Group on Formaldehyde, Washington, DC

1985 Member of the Formaldehyde Panel, Workshop on the Contribution of Airborne Pollutants to Respiratory Cancer, Snowbird, Utah

1987-1989 Member of the NIOSH Secondary Extramural Grant Review Committee

1992 Co-organizer of a Symposium on Occupational Health Risk Assessment: Directions for the 90's, Boston, MA

1992 Co-organizer and Session Chair for Epidemiologic Methods Workshop, Cincinnati, OH

1992 Planning Committee Member for the 9th International Symposium on Epidemiology in Occupational Health, Cincinnati, OH

1986-1993 Testified for NIOSH at OSHA hearings on formaldehyde (5/5/1986), cadmium (6/8/1990), on 1,3-butadiene (1/17/1991), methylene chloride (9/2/1992) and glycol ethers (7/21/1993), Washington, DC

1990-1993 Federal Liaison to the NRC Committee on Risk Assessment Methodology 1993 Task Group Member at the WHO/IPC Meeting on the Environmental Health Criteria Document (210) on Principles for the Assessment of Risks to Human Health from Exposure to Chemicals, Casharltan, England

1993 Participant at the IARC Workshop on the Quantitation and Prediction of Carcinogenic Hazards in Humans, Lyon, France

1995 Task Group Member at the WHO Meeting on Environmental Health Criteria Document on Methylene Chloride, Frankfurt, Germany

1995-2001 Participant in monograph meetings at the International Agency for Research on Cancer (IARC), Lyon, France on: 1) man made mineral fibres (2001), 2) styrene, naphylamine and some mycotoxins and herbal medicines (2001), 3) tobacco smoke (2002), and 4) printing processes and printing inks, carbon blacks and some nitro compounds (1995)

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- 1996 Task Group Member at the WHO Meeting on Environmental Criteria Document on Chrysotile Asbestos, Geneva
- 1998 Chair Adult Cancer Session for NIEHS EMF Epidemiology Meeting, San Antonio, Texas
Editorial Board Human and Ecological Risk Assessment,
Editorial Consultant for the American Journal of Epidemiology
Contributing Editor for the American Journal of Industrial Medicine
- 2000 Head of the organizing committee for a workshop on “Future Research for Improving Risk Assessment Methods” that was held in Aspen, Colorado
- 2000-Present Member of the American Chemistry Council’s Epidemiology Topic Implementation (TIP) team, Washington, DC
Leader of the NIOSH National Occupational Research Agenda (NORA) team on Risk Assessment Methodology
- 2003 Co-chair of a panel to review an EPA proposed “Protocol to assess asbestos risk” in San Francisco, CA

Professional Affiliations

Member of the Society for Epidemiologic Research, and the Society for Risk Analysis

Publications

1. Thun M, Stayner L, Brown D, and Waxweiler R.: Mining and deaths from chronic renal failure. *The Lancet*, letter to the editor, September 11, pg. 606, 1982.
2. Halperin WE, Goodman M, Stayner L, Elliott LJ, Keenlyside RA, and Landrigan PJ.: Nasal cancer in a worker exposed to formaldehyde. *J Am Med Assoc*, January 28, 249: 510-512, 1983.
3. Stayner L, and Wegman D.: Smoking, occupation and the histopathology of lung cancer: A case control study using the Third National Cancer Survey. *J Nat Cancer Inst*, 70(3):421-426, 1983.
4. Bernstein RS, Stayner LT, Elliott LJ, Kimbrough R, Falk H, and Blade L.: Inhalation exposure to formaldehyde: An overview of its toxicology, epidemiology, monitoring and control. *Am Ind Hyg Assoc J*, 45(11):778-785, 1984.
5. Stayner L, Smith AB, Reeve G, Blade L, Elliott L, Keenlyside R, and Halperin W.: Proportionate mortality study of workers in the garment industry exposed to formaldehyde. *Am J Ind Med*, 7:229-240, 1985.
6. Stayner L, Meinhardt T, Lemen R, Bayliss D, Herrick R, Reeve GR, Smith AB, and Halperin W.: A retrospective cohort mortality study of a phosphate fertilizer facility, 1984. *Arch Env Health*, 40(3):133-138, 1985.
7. Stayner L.: Adequacy of study size and statistical power. In: *Epidemiology of Occupational Health*. Edited by M. Karvonen and M. I. Mikheer, WHO Regional Publications, European Series No. 20, 159-161, 1986.
8. Nelson N, Levine RJ, Albert RE, Blair AE, Griesemer RA, Landrigan PJ, Stayner LT, and Swenberg JA.: Contribution of Formaldehyde to human cancer. *Env Health Persp*, 70:23-35, 1986.
9. Roush GC, Walrath J, Stayner LT, Kaplan SA, and Flannery JT.: Nasopharyngeal cancer, sinonasal cancer, and occupations related to formaldehyde: A case-control study. *J Nat Cancer Inst*, 79(6):1221-1224, 1987.

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10. Steenland K, Stayner L, and Greife A: Assessing the feasibility of retrospective cohort studies. *Am J Ind Med*, 12:419-430, 1987.
11. Stayner LT.: Formaldehyde. In: Occupational Medicine, Principles and Practical Applications. Edited by Carl Zenz, Year Book Medical Publishers, 734-763, 1988.
12. Greife AL, Hornung, RW, Stayner LT, Steenland KW.: Development of a model for use in estimating exposure to ethylene oxide in a retrospective cohort mortality study. *Scand J Work Env Health*, 14:29-30, 1988.
13. Stayner LT, Elliott L, Blade L, Keenlyside R, and Halperin W.: A retrospective cohort mortality study of workers exposed to formaldehyde in the garment industry. *Am J Ind Med*, 13:667-681, 1988.
14. Stayner, LT.: Human studies of formaldehyde exposure and cancers of the respiratory tract. In: Nasal Carcinogenesis in Rodents: Relevance to Human Health Risk. Proceedings of the TNO-CIVO/NYU Nose Symposium, Veldhoven, Netherlands, October 24-28, 1988. Eds. VJ Feron and MC Bosland. Pudoc Wageningen, Netherlands, 1989.
15. Steenland KJ, Beaumont J, Spaeth S, Brown D, Okun A, Jurcenko L, Roscoe B, Stayner L, Morris L.: New developments in the NIOSH lifetable system. *J Occ Med*, 32(11):1091-1098, 1990.
16. Stayner L, and Morris L.: New developments in the NIOSH lifetable system. *J Occ Med*, 32(11):1091-1098, 1990.
17. Smith R, and Stayner L.: An exploratory assessment of the risk of lung cancer associated with exposure to diesel exhaust based on a study in rats. In: Third Symposium on Respirable Dust in the Mineral Industries. Frantz, Robert L and Raja V Ramani (eds.). Society for Mining, Metallurgy, and Exploration, Inc. Littleton, Colorado, 29-49, 1991.
18. Steenland K, Stayner L, Greife A, Halperin W, Hayes R, Hornung R, and Nowlin S.: Mortality among workers exposed to ethylene oxide. *New Engl J Med*, May 16, 1991.
19. Steenland K and Stayner L.: Reply to a letter regarding: Mortality among workers exposed to ethylene oxide. *New Engl J Med*, October 24, 1991.
20. Steenland K, and Stayner L.: The importance of employment status in cohort mortality studies. *Epidemiology*, 2(6):418-423, 1991.
21. Stayner LT, Dannenberg AL, Thun M, Reeve G, Bloom TF, Boeniger M, Halperin W.: Cardiovascular mortality of workers exposed to nitroglycerin and dinitrotoluene. *Scan J Work Env*, 18:34-43, 1992.
22. Stayner L.: Methodologic issues in using epidemiologic data for quantitative risk assessment. In: Proceedings of the Conference on Chemical Risk Assessment in the Department of Defense (DoD): Science, Policy and Principles. Editor Harvey J. Clewel III, American Conference of Governmental Hygienists, Cincinnati, 43-51, 1992.
23. Stayner L, Smith R, Thun M, Schnorr T, and Lemen, R: A dose-response analysis and quantitative assessment of lung cancer risk and occupational cadmium exposure. *Annals Epid*, 2(3):177-194, 1992.
24. Dankovic DA, Stayner L, Smith RA, and Bailer AJ.: Letter to the Editor Regarding the Carcinogenicity of Butadiene. *Science*, September 4, 257, 1992.
25. Stayner L, Smith R, Thun M, Schnorr T, and Lemen, R.A.: Quantitative Assessment of Lung Cancer Risk and Occupational Cadmium Exposure. Cadmium in the Human Environment: Toxicity and Carcinogenicity, edited by G.F. Nordberg, L. Alessio and R.F.M. Herber, IARC Scientific Publications No. 118, 1992.

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26. Dankovic DA, Smith RJ, Stayner L and Bailer AJ.: Time-to-tumour risk assessment for 1,3-butadiene based on exposure of mice to low doses by inhalation. Butadiene and Styrene: Assessment of Health Hazards, Eds M Sorsa, K Peltonen, H Vainio and K Hemminki. IARC Scientific Publication No. 127, 335-44, 1993.
27. Stayner LT, Meinhardt T, and Hardin B.: Risk assessment activities at NIOSH--Information Resources and Needs. Proceedings from the Symposium on the Access and Use of Information Resources in Assessing Health Risks from Chemical Exposure, June 17-29, 1990. Prepared by the Oak Ridge National Laboratory, Oak Ridge, Tennessee, pgs. 123-127, 1993.
28. Stayner L, Smith R, Thun M, Schnorr T, and Lemen, RA.: Letter to the Editor Regarding Cadmium. *Annals Epid*, 3(1):114-118, 1993.
29. Stayner LT, Dannenberg AL, and Thun M.: Hepatobiliary cancer mortality among munitions workers exposed to dinitrotoluene. *J Occ Med*, 35(3):291-296, 1992.
30. Stayner LT and Smith RJ.: Methodologic issues in using occupational studies for cancer risk assessment. *Epidemiologia e Prevenzione*, 53:32-39, 1993.
31. Stayner L and Bailer AJ.: Comparing toxicologic and epidemiologic studies: Methylene Chloride a case study. *J Soc for Risk Anal*, 13(6):667-673, 1993.
32. Hornung RW, Greife AL, Stayner LT.: A statistical model for prediction of retrospective exposures in an occupational mortality study. *Am J Ind Med*, 25:825-36, 1994.
33. Stayner L, Steenland K, Greife A, Hornung R, Nowlin S, Morawetz J, Ringenburg V, Elliot L, Hayes R, and Halperin W.: An exposure-response analysis of cancer mortality among a cohort of workers exposed to ethylene oxide. *Am J of Epid*, 138(10):787-98, 1993.
34. Reed L, Stayner L, Ahlers H and Zumwalde R.: The role of qualitative and quantitative risk assessment in the development of occupational health standards. *Chemical Risk Assessment and Occupational Health*. Ed. Smith MC, Christiani DC and Kelsey KT. Auburne House, Westport, Connecticut, 17-24, 1994.
35. Stayner L and Smith R.: Methods for Modeling Epidemiologic Data for Quantitative Risk Assessment. *Chemical Risk Assessment and Occupational Health*. Ed. Smith MC, Christiani DC and Kelsey KT. Auburne House, Westport, Connecticut, 43-56, 1994.
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44. Prince MM, Gilbert SJ, Smith RJ and Stayner LT.: An examination of longitudinal hearing conservation databases for evidence of noise-induced hearing loss (NIHL). Proceedings of the Sixth FIOH-NIOSH Joint Symposium on Occupational Safety and Health. People and Work Research Reports, Finnish Institute of Occupational Health, Helsinki, 1995.
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53. Stayner LT, Dankovic D, and Lemen R.: Response to letters from Langer and Nolan, and by Mossman and Gee on Asbestos Related Cancer and the Amphibole Hypothesis. *Am J Pub Health*, 87(4): 691, 1997.
54. Stayner LT, Dankovic D, and Lemen R.: Response to letters from Wagner JC on Asbestos Related Cancer and the Amphibole Hypothesis. *Am J Pub Health*, 87(4):687-8, 1997.
55. Steenland K and Stayner L.: Silica, asbestos, man-made mineral fibers and cancer. *Cancer Causes and Control*, 8:491-503, 1997.
56. Stayner LT, Smith R, Bailer AJ, Gilbert S, Steenland K, Dement J, Brown D and Lemen R.: An exposure-response analysis of respiratory disease risk associated with occupational exposure to chrysotile asbestos. Inhaled Particles III. *Ann Occ Hyg*, 41(Supplement 1):137-141, 1997.
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69. Stayner L, Smith RJ and Bailer AJ.: Issues in utilizing epidemiologic data for the quantitative assessment of occupational risks. Proceedings of the 6th Annual International Symposium. Allgemeine Unfallversicherungsanstalt, Vienna, 1999.
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77. Okun A, Lentz TJ, Schulte P, and Stayner L.: Identifying high-risk small business industries for occupational safety and health interventions. *Am J Ind Med*, 38:1-11, 2001.
78. Steenland K, Marnett A, Boffetta P, Stayner L, et al.: Pooled exposure-response analyses and risk assessment for lung cancer in 10 cohorts of silica-exposed workers: an IARC multicentre study. *Cancer Causes and Controls*, 12:773-784, 2001.
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82. Stayner L.: Introduction to Risk Assessment. In: Handbook of Chemical Safety and Health. Ed. Alaimo RJ, Oxford University Press, New York, pp. 63-67, 2001.
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86. Vainio H and Stayner L.: Can health promotion at the workplace help in preventing cancer? *Scand J Work Environ Health*; 28(3):137-139, 2002.
87. Stayner L, Toraason M, and Hattis D.: Eds. of Special Issue of *Human and Ecological Risk Assessment*, Of Mice Men and Models: Future Research for Improving Risk Assessment Methods, 8(6):1195-1487, 2002.
88. Stayner L, Toraason M, and Hattis D.: Risk assessment at the crossroads of the 21st century: Opportunities and challenges. *Human and Ecological Risk Assessment* 8(6):1195-1202, 2002.
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90. Bailer, A.J., Bena, J.F., Stayner, L.T., Halperin, W.E. and Park, R.M.: External cause specific summaries of occupational fatal injuries - Part I: an analysis of rates. *American Journal of Industrial Medicine*, 43:237-250, 2003.
91. Prince MM, Gilbert SJ, Smith RJ and Stayner LT.: Evaluation of the risk of noise-induced hearing loss among unscreened male industrial workers. *J Acoust Soc Am*, 113(2):871-880, 2003.

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BIOGRAPHICAL SKETCH

07-10-2006

Kyle Steenland, Ph.D.	Rollins School of Public Health, Emory University Tel: 404-712-8277 (work)		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Stanford University, CA	B.A.	1968	History
SUNY Buffalo, Buffalo, NY	Ph.D.	1974	History
University of Pennsylvania, Philadelphia, PA	Ph.D.	1985	Epidemiology
University of Cincinnati, Cincinnati, OH	M.S.	1989	Statistics

Positions

- 1975 Research Scientist, Roswell Park Institute, Buffalo, NY.
1981 Epidemiologist, CDC, NIOSH, Division of Surveillance, Hazard Evaluations and Field Studies, Cincinnati, OH
2002 Professor, Rollins School of Public Health, Emory University, Atlanta, GA.

Peer Reviewed Publications (recent)

1. Steenland K, Hein M, Cassinelli R, Prince M, Nilsen N, Whelan E, Waters M, Ruder A, Schnorr T, Polychlorinated biphenyls and neurodegenerative disease mortality in a large occupationally exposed cohort, *Epidemiology* 17: 8-13, 2006.
2. Steenland K, Silica: déjà vu all over again, *Occ Env Med* 62: 430-432, 2005
3. Nelson D, Concha-Barrientos M, Driscoll T, Steenland K, Fingerhut M, Prüss-Üstün A, Corvalan C, Leigh J, The global burden of selected occupational disease and injury risks: methodology and summary, *AJIM* 48: 400-418, 2005.
4. Driscoll T, Nelson D, Steenland K, Leigh J, Concha-Barrientos M, Fingerhut M, Prüss-Üstün A, The global burden of disease due to occupational carcinogens, *AJIM* 48: 419-31, 2005.
5. Driscoll T, Takala J, Steenland K, Corvalan C, Fingerhut M, Review of estimates of the global burden of injury and illness due to occupational exposures, *AJIM* 48: 491-502, 2005.
6. Driscoll T, Nelson D, Steenland K, Leigh J, Concha-Barrientos M, Fingerhut M, Prüss-Üstün A, The global burden of non-malignant respiratory disease due to occupational airborne exposures, *AJIM*: 432-45, 2005
7. Steenland K, Silica: one agent, many diseases, *Am J Ind Med* 48: 16-23, 2005
8. Richardson D, Wing S, Steenland K, McKelvey W, Time-related aspects of the healthy worker survivor effect, *Ann Epidemiol* 14: 633-639, 2004
9. Steenland K, Bertazzi P, Baccarelli A, Kogevinas M, Dioxin revisited: developments since the 1997 IARC classification of dioxin as a human carcinogen, *Env Hlth Persp* 112:1265-1268, 2004
10. Steenland K, Rodriguez C, Mondul A, Calle U, Thun M, Prostate cancer incidence and mortality in relation to education, *Cancer Causes Control* 15: 939-946, 2004
11. Steenland K, Hu Sherry, Walker J, Mortality by socioeconomic status among employed persons aged 35-64 from 1984 1997 in the United States, *Am J Public Hlth* 94:1037-1042, 2004
12. Steenland K and Greenland S, Monte-Carlo sensitivity analysis and Bayesian analysis of smoking as an unmeasured confounder in a study of silica and lung cancer, *Am J Epidemiol* 160: 384-392, 2004

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13. Steenland K, Henley J, Calle E, Thun M, Individual and area-level SES variables as predictors of mortality in a cohort of 180,648 persons, *Am J Epidemiol* 159: 1047-1056, 2004
14. Steenland K and Deddens J A practical guide to exposure-response analyses and risk assessment in occupational epidemiology, *Epidemiology* 15: 63-70, 2004
15. Steenland K, Stayner L, Deddens J, Mortality analyses in a cohort of 18,235 ethylene oxide-exposed workers: followup extended from 1987 to 1998, *Occup Env Med* 2004; 61: 2-7
16. Stayner L, Steenland K, Dosemeci M, Hertz-Picciotto I, Attenuation of exposure-response curves in occupational cohort studies at high exposure levels, *Scan J Wk Env Hlth* 29: 317-324, 2003
17. Steenland K and Moe C, Epidemiology and drinking water: are we running dry?, *Epidemiol* 6: 635-636, 2003
18. Steenland K and Deddens J, Dioxin: exposure-response analyses and risk assessment, *Ind Health* 41: 175-180, 2003
19. Steenland K, Whelan E, Deddens J, Stayner L, Ward E, Ethylene oxide and breast cancer incidence in a cohort study of 7576 women, *Cancer Causes Control* 14: 531-539, 2003
20. Bailey C, Somers J, Steenland K, Exposures to diesel exhaust in the International Brotherhood of Teamsters, 1950-1990, *J Am Ind Hyg Ass* 64: 472-479, 2003
21. Steenland K, Burnett C, Ward E, Lalich N, Hurrell J, Dying for work: the magnitude of US mortality from selected causes associated with occupation, *Am J Ind Med* 43: 461-482, 2003
22. Steenland K, Halperin B, Hu S, Walker J, Mortality from external causes among employed persons by socioeconomic status from 1984-1997 in 27 states, *Epidemiology* 14: 74-79, 2003
23. Steenland K, Rosenman K, Socie E, Valiante D, A linkage study of silicosis and end-stage renal disease, *Scan J Wk Env Hlth* 28: 439-442, 2002
24. Mannetje A, Steenland K, Checkoway H, Koskela R, Koponen M, Attfield M, Chen J, Hnizdo E, DeKlerk N, Dosemeci M, Development of quantitative exposure data for a pooled exposure-response analysis of 10 silica cohorts, *Am J Ind Med* 42: 73-86, 2002
25. Steenland K, Mortality of mild-steel welders, an update, *Scan J Wk Env Hlth* 28: 1630-167, 2002
26. Steenland K, Henley J, Thun M, All cause and cause-specific mortality by educational status in two million people in two ACS cohorts, *Am J Epidemiol* 156:11-21, 2002
27. Mannetje A, Steenland K, Attfield M, Boffetta P, Checkoway H, DeKlerk N, Koskela R, Exposure-response analysis and risk assessment for silica and silicosis mortality in a pooled analysis of six cohorts, *Occ Env Med* 59: 723-728, 2002
28. Steenland K, Mannetje A, Attfield M, Pooled analysis of kidney disease mortality and silica exposure in three cohorts, *Ann Occ Hyg* 46:suppl 1: 10-13, 2002
29. Dick R, Steenland K, Krieg E, Hines C, Evaluation of acute sensory--motor effects and test sensitivity using termiticide workers exposed to chlorpyrifos, *Neurotoxicol Teratol* 23:381-93, 2001.
30. Steenland K, Calvert G, Michalek J, Ketchum N, Dioxin and diabetes mellitus: an analysis of the combined NIOSH and Ranch Hand data, *Occup Env Med* 58: 641-648, 2001
31. 30. Steenland K, Mannetje A, Boffetta P, Stayner L, Attfield M, Chen J, Dosemeci M, DeKlerk N, Hnizdo E, Koskela R, Checkoway H, Pooled exposure-response and risk assessment for lung cancer in 10 cohorts of silica-exposed workers: an IARC multi-centric study, *Cancer Causes Control* 12: 773-784, 2001
32. Steenland K, Deddens J, Piacitelli L, Risk assessment for 2,3,7,8-*p*-dioxin (TCDD) based on an epidemiologic study, *Am J Epidemiol* 154: 451-458, 2001

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33. Sanderson W, Ward E, Steenland K, Petersen M, Lung cancer case-control study of beryllium workers, *AJIM* 39: 133-144, 2001
34. Steenland K, Sanderson W, Calvert G, Kidney disease and arthritis among workers exposed to silica, *Epidemiol* 12: 405-412, 2001
35. Steenland K, Dick R, Fine L, Agreement between clinical examination and quantitative tests of neurologic function, *Am J Ind Med* 39: 361-368, 2001
36. Steenland K and Sanderson W, Lung cancer among industrial sand workers exposed to crystalline silica, *Am J Epidemiol* 153: 695-703, 2001.

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BIOGRAPHICAL SKETCH

03-30-2006

Aleksandr B. Stefaniak, Ph.D.	Senior Service Fellow, LRB, DRDS, NIOSH Tel: (304) 285 6302 E-mail: astefaniak@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Clarkson University, Potsdam, NY	B.S.	1996	Industrial Hygiene
Johns Hopkins University, Baltimore, MD	M.H.S.	1999	Industrial Hygiene
Johns Hopkins University, Baltimore, MD	Ph.D.	2004	Environmental Health

Positions

1998-1999	Research Industrial Hygienist, Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD
1999-2004	Graduate Research Assistant, Environmental Safety and Health Division, Los Alamos National Laboratory, Los Alamos, NM
2004-2005	Associate Service Fellow, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV
2005-Date	Senior Service Fellow, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV

Honors

1996-1998	Industrial Hygiene Graduate Fellow, U.S. DOE/ ORISE
1999	NIEHS Training Program ES07141 in Environmental Health Sciences
2000	Achievement Award, Los Alamos National Laboratory
2003	Distinguished Service Award for Graduate Research, Los Alamos National Laboratory
2003	David Swift Memorial Award, American Industrial Hygiene Association
2004	“Very Significant Article” Recognition, March Issue, <i>J Environ Monit</i>
2005	Best Presentation Award, 2 nd International Conference on Occupational and Environmental Exposures of the Skin to Chemicals, Stockholm, Sweden, (co-author)
2005	Honorable Mention, NIOSH Bullard-Sherwood Research-to-Practice Award for Outstanding Application of Occupational Safety and Health Research

Professional Certifications by Examination

Diplomate, American Board of Industrial Hygiene (CIH)
Industrial Hygienist in Training, American Board of Industrial Hygiene (IHIT)

Other Experience and Professional Memberships

1995-Date	American Industrial Hygiene Association
1998-2004	Society for Mining, Metallurgy, and Exploration
2000-2002	International Society of Exposure Analysis
2003-2004	American Thoracic Society
2004-2005	American Conference of Governmental Industrial Hygienists
2004-Date	Diplomat of the Academy of Industrial Hygiene
2004-Date	Beryllium Health and Safety Committee, Analytical Subcommittee

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2004-Date	Beryllium Health and Safety Committee, BeO Digestion Working Group
2004-Date	Beryllium Health and Safety Committee, Speciation Working Group
2005-Date	AIHA Exposure Assessment Strategies Committee
2004-Date	Exposure Assessment Strategies Committee, Dermal Project Team,(Co-chair, 2006)
2005-Date	AIHA Aerosol Technology Committee

Peer Reviewed Publications

1. Stefaniak A.B., Breyse P.N., Murray P.M., Rooney B.C., Schaefer J.: An evaluation of employee exposure to volatile organic compounds (VOCs) in three photocopy centers. *Environ Res Sect A*, 83:162-173, 2000.
2. Breyse P.N., Weaver V., Cadorette M., Wiggs L., Curbow B., Stefaniak A.B., Melius J., Newman L., Smith H., Schwartz B.: Development of a medical examination program for former workers at a department of energy national laboratory. *Am J Ind. Med.*, 42:443-454, 2002.
3. Lees P.S.J, Stefaniak A.B., Emmett E.A., Dalton P.: Exposure assessment for olfactory function in workers exposed to styrene in the reinforced-plastics industry. *Am J Ind Med*, 44:12-23, 2003.
4. Dalton P., Cowart B., Dilks D., Gould M., Lees P., Stefaniak A.B., Emmett E.: Olfactory function in workers exposed to styrene in the reinforced-plastics industry. *Am J Ind Med*, 44:1-11, 2003.
5. Stefaniak A.B., Weaver V.M., Cadorette M., Guthrie-Pucket L., Schwartz B.S., Wiggs L.D., Jankowski M.D., Breyse P.N.: Summary of historical Beryllium uses and airborne concentration levels at Los Alamos National Laboratory. *Appl Occup Environ Hyg*, 18 9:708-715, 2003.
6. Stefaniak A.B., Hoover M.D., Dickerson R.M., Peterson E.J., Day G.A., Breyse P.N., Kent M.S., Scripsick R.C.: Surface area of respirable beryllium metal, oxide, and copper alloy aerosols and implications for assessment of exposure risk of chronic beryllium disease. *Am Ind Hyg Assoc J*, 64:297-305, 2003.
7. Day G.A., Stefaniak A.B., Hoover M.D., Dickerson R.M., Peterson E.J., Esmen N.A., Scripsick R.C.: Intracellular behavior of beryllium oxide particles: an in vitro study in murine macrophages. *Am J Respir Crit Care Med*, 169 7:A640, 2004. [Abstract]
8. Stefaniak A.B., Hoover M.D., Day G.A., Dickerson R.M., Peterson E.J., Kent M.S., Schuler C.R., Breyse P.N., Scripsick R.C.: Characterization of physicochemical properties of Beryllium aerosols associated with prevalence of chronic beryllium disease. *J Environ Monit*, 6 6:523-532, 2004.
9. Day G.A., Hoover M.D., Stefaniak A.B., Dickerson R.M., Peterson E.J., Esmen N.A., Scripsick R.C.: Intracellular behavior of beryllium oxide particles: an in vitro study in murine macrophages. *Exp Lung Res*, 31 3:341-360, 2005.
10. Stefaniak A.B., Guilmette R.A., Day G.A., Hoover M.D., Breyse P.N., Scripsick R.C.: Characterization of phagolysosomal fluid for study of beryllium aerosol particle dissolution. *Toxicol. In Vitro*, 19 1:123-134, 2005.
11. Stefaniak A.B., Hoover M.D., Day G.A., Ekechukwu A.A., Whitney G., Brink C.A., Scripsick R.C.: Characteristics of beryllium oxide and beryllium metal powders for use as reference materials. *J ASTM International*, In Press.
12. Stefaniak A.B., Day G.A., Hoover M.D., Breyse P.N., R.C. Scripsick: Differences in dissolution behavior in a phagolysosomal simulant fluid for single-component and multi-component materials associated with beryllium sensitization and chronic beryllium disease. *Toxicol In Vitro*, In Press.

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13. Day G.A., Stefaniak A.B., Weston A., Tinkle S.S.: Beryllium exposure: dermal and immunological considerations. *Int Arch Occup Environ Health*, In Press.

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BIOGRAPHICAL SKETCH

Robert P. Streicher, Ph.D.	Research Chemist Tel: 513-841-4296 E-Mail: RStreicher@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati	B.S.	1982	Chemistry
University of Cincinnati	M.S.	1985	Organic Chemistry
University of Cincinnati	Ph.D.	1987	Organic Chemistry

Positions

1987-1997 Research Chemist, NIOSH/DART/MRB

1997-2004 Chief, NIOSH/DART/CEMB/AMDS

2005-present Team Leader, NIOSH/DART/CEMB

Honors

1986 University Research Council Summer Research Fellowship

1986 University Dean's Distinguished Dissertation Fellowship

1986 U.S. Environmental Protection Agency Scientific and Technological Achievement Award

1991 U.S. Public Health Service Superior Work Performance Award

1992 U.S. Public Health Service Special Act Award

1995 American Chemical Society Division of Analytical Chemistry Arthur F. Findeis Award for Achievements by a Young Analytical Scientist, nominated

1996 Centers for Disease Control and Prevention Charles Shepard Science Award, nominated for the paper Investigation of the Ability of MDHS Method 25 to Determine Urethane-Bound Isocyanate Groups@

2000 Greater Cincinnati Federal Executive Board, Federal Service Excellence Award, Supervisory Category

Other Experience and Professional Memberships

American Chemical Society

International Organization for Standardization

Phi Beta Kappa

Sigma Xi

Selected Peer-Reviewed Publications

1. Streicher, RP, ER Kennedy, and CD Lorberau: Strategies for the Simultaneous Collection of Vapours and Aerosols with Emphasis on Isocyanate Sampling. *Analyst* 119:89-97 (1994).
2. Streicher, RP, JE Arnold, CV Cooper, and TJ Fischbach: Investigation of the Ability of MDHS Method 25 to Determine Urethane-Bound Isocyanate Groups. *Am. Ind. Hyg. Assoc. J.* 56:437-442 (1995).
3. Ward, EM, G Sabbioni, DG DeBord, AW Teass, KK Brown, GG Talaska, DR Roberts, AM Ruder, and RP Streicher: Monitoring of Aromatic Amine Exposures in Workers at a Chemical Plant With a Known Bladder Cancer Excess. *J. Natl. Cancer Inst.* 88:1046-1052 (1996).

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4. Streicher, RP, JE Arnold, MK Ernst, and CV Cooper: Development of a Novel Derivatization Reagent for the Sampling and Analysis of Total Isocyanate Group in Air and Comparison of its Performance with that of Several Established Reagents. *Am. Ind. Hyg. Assoc. J.* 57:905-913 (1996).
5. Streicher, RP, CM Reh, R Key-Schwartz, PC Schlecht, and ME Cassinelli: Determination of Airborne Isocyanate Exposure. In NIOSH Manual of Analytical Methods, 4th ed., 2nd supplement, Cassinelli, ME, ed. Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, 1998.
6. England, E, R Key-Schwartz, J Lesage, G Carlton, R Streicher, and R Song: Comparison of Sampling Methods for Monomer and Polyisocyanates of 1,6-Hexamethylene Diisocyanate During Spray Finishing Operations. *Appl. Occup. Env. Hyg.* 15:472-478 (2000).
7. Streicher, RP, CM Reh, R Key-Schwartz, PC Schlecht, ME Cassinelli, and PF O'Connor: Determination of Airborne Isocyanate Exposure: Considerations in Method Selection. *Am. Ind. Hyg. Assoc. J.* 61:544-556 (2000).
8. Roh, YM, RP Streicher, and MK Ernst: Development of a New Approach for Total Isocyanate Determination Using the Reagent 9-Anthracenylmethyl 1-Piperazinecarboxylate. *Analyst* 125:1691-1696 (2000).
9. Bello, D, RP Streicher, and SR Woskie: Evaluation of the NIOSH Draft Method 5525 for the Determination of Total Reactive Isocyanate Group (TRIG) for Aliphatic Isocyanates in Autobody Repair Shops. *J. Environ. Monitor.* 4: 351-360 (2002).
10. Bello, D, RP Streicher, YC Liu, J Sparer, F Youngs, and SR Woskie: Field Comparison of Impingers and Treated Filters for Sampling of Total Aliphatic Isocyanates with the MAP Reagent. *Am. Ind. Hyg. Assoc. J.* 63: 790-796 (2002).
11. Bello, D, SR Woskie, RP Streicher, Y Liu, MH Stowe, EA Eisen, MJ Ellenbecker, J Sparer, F Youngs, MR Cullen, and CA Redlich: Polyisocyanates in Occupational Environments: A Critical Review of Exposure Limits and Metrics. *Am. J. Ind. Med.* 46: 480-491 (2004).
12. Bello, D, SR Woskie, RP Streicher, M Stowe, J Sparer, C Redlich, M Cullen, and Y Liu: Determination of Aliphatic Polyisocyanates in an Experimental Study. *J. Environ. Monitor.* 7:716-721 (2005).
13. Bello, D, TJ Smith, SR Woskie, RP Streicher, MF Boeniger, CA Redlich, and Y Liu: An FTIR Investigation of Isocyanate Skin Absorption Using In Vitro Guinea Pig Skin, *J. Environ. Monitor.* 8:523-529 (2006).

Patents

1. Streicher, RP, D Bello, AA Grote, and SR Woskie: Measurement of Total Reactive Isocyanate Groups in Samples using Bifunctional Nucleophiles such as 1,8-Diaminonaphthalene. U.S. Patent Application # 60/429,963, filed November 29, 2002.
2. Streicher, RP: Isocyanate Derivatizing Agent and Methods of Production and Use, U.S. Patent # 6,656,737, December 2, 2003.
3. Streicher, RP: Method for Detecting Isocyanates, U.S. Patent # 5,354,689, October 11, 1994.

Index of Biosketches

BIOGRAPHICAL SKETCH

3/7/2005

Edward D Thimons, M.S.	Branch Chief Tel: 412-386-6683 E-Mail:		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Duquesne University	B.S.	1969	Physics
University of Pittsburgh	M.S.	1974	Civil Engineering

Positions

10/01/96-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention
1969 U. S. Bureau of Mines

Honors

2004 Co-recipient of 2004 R&D 100 Award for Personal Dust Monitor
2004 NIOSH Special Award for developing world class mining diesel research team
2001 Michigan Industrial Hygiene Association "Best Paper of the Year Award"
1998 Mine Ventilation Society of SA Colliery Manager's Prize for peer reviewed article
1997 IR 100 Award from Industrial Research Magazine

Other Experience and Professional Memberships

Society of Mining Engineers (Underground Ventilation Committee)
Underground Technology Research Council
National Stone Association Safety and Health Committee and Noise Task Force
U.S. Water Jet Society

National Committee Assignments:

Organizing Committee for 2006 U. S. North American Mine Ventilation Conference (current)
Consulted in South Africa on synergy between HIV, TB, and silicosis in miners (1999)
Consulted and taught mining health and safety course for Mexican government (1998)
Consulted in Chile on health and safety issues for CODELCO Copper (1997)
Consulted in Saudia Arabia on dust problems at mines and aggregate plants (1994)
Consulted for DOD and South Korea on detecting North Korean tunnels under the DMZ
Consulted for DC Metropolitan Area Transit Authority on containing fires in Metro system
Consulted for Defense Nuclear Agency on ventilation problems at Nevada Test Site tunnels
Consulted for Department of Energy on nuclear waste storage site ventilation issues
Consulted for National Underground Storage on ventilation/radon problems in storage sites
Consulted for Colorado Mining Association on oil shale mine ventilation issues

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Peer Reviewed Publications:

1. Hearing Loss and Hearing Protection Messages Using the Extended Parallel Process Model to Prevent Noise-Induced Hearing Loss Among Coal Miners in Appalachia. L Murray-Johnson, KR Witte, DH Patel, CE Zuckermann, AM Maxfield, S Meadows-Hogan, JA Tisdale, and ED Thimons, *Journal of Health Education and Behavior*. December, 2004, Vol. 31, No. 6, pp. 741-755.
2. Safety Concerns Associated with the Use of Electrically Powered Haulage to Remove Workers from Mines During Main Fan Stoppages. Taylor, C. D., R. J. Timko, J. A. Zimmer, and E. D. Thimons. *Mine Ventilation Journal of South Africa*, January/March 2003 issue, Vol. 56, No. 1, pp. 25-29
3. Factors Affecting the Location of Methanometers on Mining Equipment. Taylor, C. D., E. D. Thimons, and J. A. Zimmer. *Mine Ventilation SA Journal*, Vol. 56, No. 1, January/March 2003 issue, pp. 6-10
4. Methods to Lower the Dust Exposure of Bag Machine Operators and Bag Stackers. AB Cecala, RJ Timko, and ED Thimons. *Applied Occupational and Environmental Hygiene Journal*, Vol. 15, No. 10, October, 2000.
5. The Barriers to Action Model (BAM): Understanding Barriers to Preventive Health Actions for Occupational Noise-Induced Hearing Loss. DS Patel, KR Witte, CE Zukerman, L Murray-Johnson, AM Maxfield, S Meadows-Hogan, JA Tisdale, and ED Thimons. *Journal of Health Communications*, Vol. 6, pp. 155-168, May/June, 2001.
6. Ventilating the Box Cut of a Two-Pass 40-Ft Extended Cut. Thimons, Edward D., Charles D. Taylor, and Jeanne A. Zimmer. *South African Mine Ventilation Journal*, July/Sept, 1999, Vol. 52, No. 3, pp. 101-115.
7. Comparison of Methane Concentrations at a Simulated Coal Mine Face During Bolting. Taylor, Charles D., Edward D. Thimons, and Jeanne A. Zimmer. *South African Mine Ventilation Journal*, April/June, 1999, Vol. 52, No. 2, pp. 48-52

Non-Peer Reviewed Publications

1. Implementing a New Personal Dust Monitor as an Engineering Tool. Volkwein JC, Thimons ED, Yanak C, Dunham D, Patashnick H, and Rupprecht E, *Coal Age*, Dec 2004, Vol.9, No. 12, pp. 26-29.
2. Toward Common Goals, Thimons, E. D., *International Longwall News*, March 12, 2004, 3 pgs.
3. Personal Dust Monitor: Empowering the Worker, *International Longwall News*, February 18, 2004, 2 pgs.
4. NIOSH/Industry Collaborative Efforts Show Improved Mining Equipment Cab Dust Protection. Organiscak, J. A., A. B. Cecala, E. D. Thimons, W. A. Heitbrink, M. Shultz, and E. Ahrenholtz, *2003 Transactions of Society of Mining Engineers*, February, 2004, Vol. 314, pp.145-152
5. Reducing Silica Exposures in Aggregate Operations. Cecala, A. B., J. A. Organiscak, S. J. Page, and E. D. Thimons, *Aggregates Manager*, January, 2002, pp. 24-28.

Index of Biosketches

Conference Proceedings

1. Longwall Dust Control: Issues and Possible Solutions. Rider, J. P., J. F. Colinet, G. J. Chekan, J. M. Listak, and E. D. Thimons. Proceedings of Longwall USA Conference, June 13-15, 2001, Pittsburgh, PA, pp. 91-111.
2. NIOSH Research for Controlling Respirable Dust and Methane Gas on Continuous Miner Faces. Goodman, G. V. R., C. D. Taylor, J. F. Colinet, and E. D. Thimons, Proceedings of Conference on Coal Research, September 12-15, 2000, Johannesburg, South Africa, pp. 151-155, Symposium Series S26.

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BIOGRAPHICAL SKETCH

07/25/06

Robert J Timko	Supervisory Research Physical Scientist Tel: 412-386-6684 E-Mail: RTimko@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Pittsburgh	B.A.	1971	Geography

Positions

10/1/96 – Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

1987 Westmoreland Coal Company - 1987 Board of Directors Safety Award
1987 Bureau of Mines Quality Increase Award
1989 Federal Executive Board "Excellence in Government Awards" Outstanding Professional Employee – Finalist
1993 Bureau of Mines Coauthor - 1993 Publication of the Year
1995 Bureau of Mines Coauthor – 1995 Publication of the Year
1995 Department of Energy - Special Achievement Award - 1995 Publication of the Year
2000 Michigan Industrial Hygiene Society – Coauthor, Best Paper Award
2003 Federal Executive Board "Excellence in Government Awards" Outstanding Professional Employee – Bronze Award
2003 NIOSH On-the-spot Cash Award - A Cohort Mortality Study with a Nested Case-Control Study of Lung Cancer and Diesel Exhaust among Non-metal Miners

Other Experience and Professional Memberships

Society for Mining, Metallurgy, and Exploration, Inc. (Currently Member-at-Large of Underground Ventilation Committee)

Peer Reviewed Publications:

1. Noll, J.D., R.J. Timko, L. McWilliams, and P. Hall. Sampling Results of the Improved SKC Diesel Particulate Matter Cassette. Journal of Occupational and Environmental Hygiene, January 2005, pp. 29-37.
2. Taylor C.D., R.J. Timko, M.J. Senk, and A. Lusin. Measurement of Airflow in a Simulated Underground Mine Environment Using an Ultrasonic Anemometer. SME Transactions 2004, Vol. 316, pp. 201-206.
3. Dobroski, H. Jr., D.P. Tuchman, R.P. Vinson, and R.J. Timko. Differential Pressure Response of 25-mm Diameter Glass Fiber Filters Challenged with Coal and Limestone Dust Mixtures. Applied Occupational and Environmental Hygiene, Vol. 17, No. 2, 2002, pp. 96-103.

NIOSH Publications and Technical Report

Chilton, J.E., E.J. Chuhta, and R.J. Timko. Nitrogen Dioxide Measurement with Portable Monitor. NIOSH Information Circular 9482. Dec. 2005, 8 pp.

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Conference Proceedings

1. Cecala, A.B., J.A. Zimmer, J.F. Colinet, and R.J. Timko. Lowering Respirable Dust at an Iron Ore Concentrator Plant through Improved Ventilation Practices. 11th US/NA Mine Ventilation Symposium, Penn State University, University Park, PA, Jun 5-7, 2006, pp 189-196.
2. Noll, J.D., S.E. Mischler, L.D. Patts, G.H. Schnakenberg, Jr, A.D. Bugarski, R.J. Timko, and G. Love. The Effects of Water Emulsified Fuel on DPM Concentrations in Underground Mines. 11th US/NA Mine Ventilation Symposium, Penn State University, University Park, PA, Jun 5-7, 2006, pp 159-166.
3. Taylor, C.D., J.E. Chilton, E.E. Hall, and R.J. Timko. Effect of Scrubber Operation on Airflow and Methane. Patterns at the Mining Face. 11th US/NA Mine Ventilation Symposium, Penn State University, University Park, PA, Jun 5-7, 2006, pp 393-400. *Other - Conference Proceeding*
4. Taylor, C.D., J.E. Chilton, E.E. Hall, and R.J. Timko. Effect of Water Sprays on Airflow Movement and Methane Dilution at the Working Face. 11th US/NA Mine Ventilation Symposium, Penn State University, University Park, PA, Jun 5-7, 2006, pp 401-406.
5. Timko, R.J. and R.L. Derick. Determining the Status of Mine Atmospheres Following Indication of Fire. 2006 SME Annual Meeting, St. Louis, MO, Mar 27-29, 2006, Preprint 06-062.
6. Volkwein, J.C., S.E. Mischler, E.D. Thimons, R.J. Timko, and F.N. Kissell. State of the Art in Monitoring Respirable Mine Aerosols. 31st Biennial International Conference of Safety in Mines Research Institutes Proceedings, Queensland, AU, Oct 2-5 2005, pp. 138-139.
7. Cecala, A.B., J.A. Zimmer, J.F. Colinet, R.J. Timko, and G.J. Chekan. Using Ventilation Control Technology to Reduce Respirable Dust Exposures at U.S. Metal/Nonmetal Mining Operations. Eighth International Mine Ventilation Congress, Brisbane, AU, Jul 6-8, 2005, pp. 157-165.
8. Volkwein, J.C., E.D. Thimons, R.J. Timko, and F.N. Kissell. State of the Art in Monitoring Respirable Mine Aerosols. Eighth International Mine Ventilation Congress, Brisbane, AU, Jul 6-8, 2005, pp. 151-155.
9. Taylor, C.D., E.D. Thimons, R.J. Timko, and T. Mal. Using Ultrasonic Anemometers Evaluating Factors Affecting Face Ventilation Effectiveness. 2005 SME Annual Meeting and Exhibit, Salt Lake City, UT, Feb 28 - Mar 2, 2005, Preprint #05-80.
10. Taylor, C.D., R.J. Timko, E.D. Thimons, and J.A. Zimmer. Safety Concerns Associated with the Use of Electrically Powered Haulage to Remove Workers from Mines during Main Fan Stoppage. Proceedings of the North American/Ninth U.S. Mine Ventilation Symposium, 2002, pp. 649-653.

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BIOGRAPHICAL SKETCH

07-10-2006

Douglas Trout, M.D.	Associate Director for Science, DSHEFS Tel: (513) 841-4558 E-Mail: dt trout@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Hamilton College, Clinton, NY	B.A.	1979	Biology
Johns Hopkins School of Hygiene and Public Health, Baltimore, MD	M.H.S.	1985	Industrial Hygiene
University of Pennsylvania School of Medicine, Philadelphia, PA	M.D.	1989	Medicine

Positions

1989	Internal Medicine Residency, Graduate Hospital, Phila., PA.
1992	EIS Officer, CDC, NIOSH
1994	Medical Officer, Division of Surveillance, Hazard Evaluations and Field Studies (DSHEFS), NIOSH, Cincinnati, OH
2005	Associate Director for Science, DSHEFS, NIOSH, Cincinnati, OH

Other Experience and Professional Memberships

1998	Volunteer Assistant Professor University of Cincinnati
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Peer Reviewed Publications

1. Hall RM, Trout D, Earnest GS [2004]. An industrial hygiene survey of an office building in the vicinity of the World Trade Center: assessment of potential hazards following the collapse of the World Trade Center buildings. *J Occ Env Hygiene* 1(5):D49-53.
2. Trout D, Seltzer JM, Page EH, Biagini RE, Schmechel D, Lewis D, Boudreau AY [2004]. Clinical use of immunoassays in assessing exposure to fungi and potential health effects related to fungal exposure. *Annals of Allergy, Asthma, and Immunology* 92:483-492.
3. Lenhart SW, Seitz T, Trout D, Bollinger N [2004]. Issues affecting respirator selection for workers exposed to infectious aerosols: emphasis on healthcare settings. *Applied Biosafety* 9(1): 20-36.
4. Trout D, Weissman DN, Lewis D, Brundage RA, Franzblau A, Remick D [2003]. Evaluation of hypersensitivity pneumonitis among workers exposed to metal removal fluids. *Applied Occupational and Environmental Hygiene* 18:953-960.
5. Lenhart SW and Trout D [2003]. Job stress and infectious disease risks in an adult developmental center. *Applied Occupational and Environmental Hygiene* 18:561-565.
6. Trout D, Nimgade A, Mueller C, Hall R, Earnest GS [2002]. Health effects and occupational exposures among office workers near the World Trade Center disaster site. *J Occ Env Med* 44(7):601-605.
7. Weiss L, Pue C, Rossmoore H, Lewis R, Fink J, Harney J, and Trout D [2002]. Respiratory Illness in Workers Exposed to Metalworking Fluid Contaminated with Nontuberculous Mycobacteria --- Ohio, 2001. *MMWR* 51(16):349-52.
8. Page EH and Trout D [2001]. The role of *Stachybotrys* mycotoxins in building-related illness. *Am Ind Hygiene Assoc Journal* 62:644-648.

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9. Trout D, Bernstein J, Martinez K, Biagini R, Wallingford K [2001]. Bioaerosol Lung Damage in a Worker with Repeated Exposure to Fungi in a Water-Damaged Building. *Environmental Health Perspectives* 109(6):641-644.
10. Trout D, Mueller C, Venczel L, Krake A [2000]. Evaluation of Occupational Transmission of Hepatitis A Virus Among Wastewater Workers. *J Occ Env Med* 42(1):83-87.
11. Trout D, Decker J, Mueller C, Bernert JT, Pirkle J. [1998]. Exposure of casino employees to environmental tobacco smoke. *J Occ Env Med* 40(3):270-276.
12. Freeman A, Lockey J, Hawley P, Biddinger P, Trout D. [1998]. Hypersensitivity pneumonitis in a machinist. *AJIM* 34:387-392.
13. Trout D, Esswein EJ, Hales T, Brown K, Solomon G, Miller M [1996]. Exposures and health effects: an evaluation of workers at a sodium azide production plant. *AJIM* 30:343-350.
14. CDC [1996]. Biopsy-confirmed hypersensitivity pneumonitis in automobile production workers exposed to metalworking fluids --Michigan. *MMWR* 45(28):606-610.
15. Trout D, Gomez TM, Bernard BP, Mueller CA, Smith CG, Hunter L, Kiefer M [1995]. Outbreak of brucellosis at a United States pork packing plant. *J Occ Env Med* 37(6): 697-703.
16. CDC [1994]. Brucellosis outbreak at a pork processing plant --North Carolina, 1992. *MMWR* 43(7):113-116.
17. Trout DB, Breyse P, Hall T, Corn M, Risby T [1986]. Determination of organic vapor respirator cartridge variability in terms of degree of activation of the carbon and cartridge packing density. *Am Ind Hyg Assoc J* 47(8):491-496.

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BIOGRAPHICAL SKETCH

Donald P. Tuchman, M.S.	Research Industrial Hygienist Tel: 412-386-6645 E-Mail: DTuchman@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Carnegie-Mellon University	B.S	1974	Chemistry
University of Pittsburgh	M.S.	1983	Industrial Hygiene

Positions

07/01/1984-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention, Pittsburgh, PA

Honors

2005 Federal Executive Board Excellence in Government Team Award, local winner
2000 Special Achievement Group Award

Peer Reviewed Publications:

1. Dobroski H, Tuchman DP, Vinson RP, Timko RJ [2002]. Differential pressure response of 25-mm-diameter glass fiber filters challenged with coal and limestone dust mixtures. *Appl Occup Environ Hyg* 17(2):96–103.
2. Dobroski H, Tuchman DP, Vinson RP [1997]. Differential pressure as a means of estimating respirable dust mass on collection filters. *Appl Occup Environ Hyg* 12(12):1047–1051.
- 3.
4. NIOSH Publications and Technical Reports:
5. Volkwein JC, Vinson RP, Page SJ, McWilliams LJ, Joy GJ, Mischler SE, Tuchman DP [2006]. Laboratory and field performance of a continuous measuring personal respirable dust monitor. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication/RI No. pending.
6. Volkwein JC, Vinson RP, McWilliams LJ, Tuchman DP, Mischler SE [2004]. Performance of a new personal respirable dust monitor for mine use. Pittsburgh, PA: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 2004–151, RI 9663.

Conference Proceedings:

Volkwein JC, Tuchman DP, Vinson RP [2002]. Performance of a prototype personal dust monitor for coal mine use. In: De Souza E, ed. *Proceedings of the North American/Ninth U.S. Mine Ventilation Symposium* (Kingston, Ontario, Canada). Lisse, Netherlands: Balkema, pp. 633–639.

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BIOGRAPHICAL SKETCH

3/10/2005

Robert P. Vinson	Research Physicist Tel: 412-386-6798 E-Mail: RVinson@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
California State University	B.S	1970	Physics

Positions

10/01/96-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Peer Reviewed Publications:

1. Volkwein JC, R.P.Vinson, and D.P. Tuchman, [2002] Performance of a prototype personal dust monitor for coal mine use. In : Proceedings of the North American/Ninth U.S. Mine Ventilation Symposium. Lise, The Netherlands: Balkema, pp633-639.
2. Dobroski H., Tuchman DP, Vinson RP,[2002] The Differential Pressure Response of 25-mm Diameter Glass Fiber Filters Challenged with Coal and Limestone Dust Mixtures. Applied Occup. Environ. Hyg. Vol. 17,No. 2 :96-103
3. Dobroski H., Tuchman DP, Vinson RP, Differential Pressure as a means of Estimating Respirable Dust Mass on Collection Filters. Appl. Occup. Environ. Hyg. Vol.12, No. 12 December 1997, pp 1047-1051
4. Williams KL, and Vinson RP, A New Technology for Respirable Coal Mine Dust Measurement. Appl. Occup. Environ. Hyg., Vol. 11, No. 7, July 1996, pp. 618-623.

NIOSH Publication and Technical Report

Volkwein,J.C., R.P.Vinson, D.P. Tuchman, S. Mischler, and L. McWilliams. Performance of a New Personal Dust Monitor for Mine use. NIOSH RI 9663, June 2004

US Bureau of Mines Publication

Vinson RP, Using Light Scattering Intensities to Discriminate Waterdrops from Coal Mine Dusts. Bureau of Mines IC 9357, 1993, 14 pp.

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BIOGRAPHICAL SKETCH

03/15/05

Jon C. Volkwein, M.S.	Research Physical Scientist Tel: 412-386-6689 E-Mail: JVolkwein@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Eckerd College	B.S	1973	
University of Pittsburgh	M.S.	1998	

Positions

10/01/96-Present National Institute of Occupational Safety and Health, Centers for Disease Control and Prevention

Honors

2004 Research and Development Magazine R&D 100 2004 award winning recipient for Personal Dust Monitor

Other Experience and Professional Memberships

SME, Underground Ventilation Committee

American Association of Aerosol Research, Instrumentation Committee

Peer Reviewed Publications:

1. Volkwein, J. C., S. E. Mischler, B. Davies, and C. Ellis. A Direct Method to Measure Relative Levels of Engine Tailpipe Diesel Particulate Matter. *J.of Aero. Sci.* Mar. 2005.
2. Mischler, S. E.; Volkwein, J. C Differential Pressure as a Measure of Particulate Matter Emissions from Diesel Engines *Enviro. Sci. & Tech.* Web published, <http://pubs.acs.org/cgi-bin/abstract.cgi/esthag/asap/abs/es0491230.html>. Feb. 2005
3. Peters, T. M. and J. C. Volkwein, Analysis of sampling line bias on respirable mass measurement. *Appl. Occup. & Enviro. Hyg.* 18(6), 2003.

Non Peer Reviewed Publication

Volkwein, J. C. Implementing a New Personal Dust Monitor as an Engineering Tool. *Coal Age*, pp26-29, Dec. 2004.

NIOSH Publication and Technical Reports

1. Volkwein, J. C., R. P. Vinson, L. J. McWilliams, D. P. Tuchman, and S. E. Mischler, Performance of a New Personal Respirable Dust Monitor for Mine Use. CDC RI 9663. June 2004.
2. Kissell F. N. and J. C. Volkwein, Chapter 8. How to Find Major Dust Sources, *Handbook for Dust Control*, Editor F. N. Kissell, CDC IC 9465, June 2003

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BIOGRAPHICAL SKETCH

6-9-2006

Kenneth M. Wallingford, M.S.		Deputy Chief, HETAB Tel: (513) 841-4327 E-mail: kmw2@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	A.S.A.	1973	Natural Science
University of Cincinnati, Cincinnati, OH	B.S.	1977	Natural Science
University of Cincinnati, Cincinnati, OH	M.S.	1982	Industrial Hygiene

Selected Positions

- 1982-1985 Industrial Hygienist, Hazard Evaluations and Technical Assistance Branch (HETAB), Division of Surveillance, Hazard Evaluations and Field Studies (DSHEFS), National Institute for Occupational Safety and Health (NIOSH), Center for Disease Control and Prevention (CDC), Cincinnati, OH
- 1985-1987 Supervisory Industrial Hygienist, HETAB, DSHEFS, NIOSH, CDC, Cincinnati, OH
- 1987-1990 Manager, Industrial Hygiene Services, DataChem, Inc., Cincinnati, OH
- 1990-1995 Chief, Industrial Hygiene Section, Industry-Wide Studies Branch, DSHEFS, NIOSH, CDC, Cincinnati, OH
- 1995-2004 Research Industrial Hygienist, HETAB, DSHEFS, NIOSH, CDC, Cincinnati, OH
- 2004-2005 Industrial Hygiene Team Leader, HETAB, DSHEFS, NIOSH, CDC, Cincinnati, OH
- 2005-present Deputy Chief, HETAB, DSHEFS, NIOSH, CDC, Cincinnati, OH

Selected Honors

- 1993 Contributions to the Industrial Hygiene Certification Program, American Board of Industrial Hygiene
- 1994 Leadership in Bringing Maturity and International Recognition to the Indoor Environmental Quality Committee during Its First Decade, American Industrial Hygiene Association Indoor Environmental Quality Committee
- 1994 Best Conference Poster Presentation for "Characterization of Exposures in the Custom Woodworking Industry," American Industrial Hygiene Conference and Exposition
- 1999 Best Indoor Air Quality Paper Award for "Evaluation of Microbiological Contamination in a Museum," American Industrial Hygiene Association Indoor Environmental Quality Committee
- 2001 Presidential Letter of Recognition to the Heroes of DHHS (World Trade Center), The White House
- 2002 Secretary's Award for Distinguished Service (World Trade Center), Department of Health and Human Services
- 2003 Contribution Towards the Containment of the SARS Outbreak in Taiwan, Taiwan Department of Health/Taiwan Center for Disease Control
- 2004 Director's Recognition Award for Extraordinary Teamwork, Productivity, and Scientific Excellence to Control the Spread of SARS and Monkeypox, CDC

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Selected Other Experience and Professional Memberships

American Conference of Governmental Industrial Hygienists
Academy of Kettering Fellows
American Industrial Hygiene Association
Academy of Industrial Hygiene
American Society of Heating, Refrigerating, and Air-conditioning Engineers

Peer-Reviewed Publications

1. Dement J., Wallingford K.: Comparison of Phase Contrast and Electron Microscopic Methods for Evaluation of Occupational Asbestos Exposures. *Appl Occup Environ Hyg*, 5:242-247, 1990.
2. Venable H., Wallingford K., Roberts D., Booher D.: Simulated Carbon Monoxide Exposure In An Enclosed Structure From A Gasoline-Powered Pressure Washer. *Appl Occup Environ Hyg*, 10:581-584, 1995.
3. Sieber W., Stayner L., Malkin R., Petersen M., Mendell M., Wallingford K., Crandall M., Wilcox T., Reed L.: The National Institute for Occupational Safety and Health Indoor Environmental Evaluation Experience. Part Three: Associations between Environmental Factors and Self-Reported Health Conditions. *Appl Occup Environ Hyg*, 11:1387-1392, 1996.
4. Morata T., Fiorini A., Fisher F., Colacioppo S., Wallingford K., Krieg E., Dunn D., Gozzoli L., Padaro M., Cesar C.: Toluene-Induced Hearing Loss Among Rotogravure Printing Workers. *Scand J Work Environ Health*, 23:289-298, 1997.
5. Watts R., Wallingford K., Williams R., House D., Lewtas J.: Airborne Exposures to PAH and PM_{2.5} Particles for Road Paving Workers Applying Conventional Asphalt and Crumb Rubber Modified Asphalt. *J Exposure Analysis Environ Epi*, 8:213-229, 1998.
6. Krake A., Worthington K., Wallingford K., Martinez, K.: Evaluation of Microbiological Contamination in a Museum. *Appl Occup Environ Hyg*, 14(8):499-509, 1999.
7. Trout D., Bernstein J., Martinez K., Biagini R., Wallingford K.: Bioaerosol Lung Damage in a Worker With Repeated Exposure to Fungi in a Water-Damaged Building. *Environ Health Perspect*, 109(6):641-644, 2001.
8. Wallingford K., Snyder E.: Occupational Exposures during the World Trade Center Disaster Response. *Tox Ind Health*, 17:247-253, 2001.
9. Sieber W., Petersen M., Stayner L., Mendell M., Wallingford K., Wilcox T., Crandall M., Reed L.: HVAC Characteristics and Occupant Health. *ASHRAE Journal*, 44(9):49-53, 2002.
10. Mendell M., Fisk W., Kreiss K., Levin H., Alexander D., Cain W., Girman J., Hines C., Jensen P., Milton D., Rexroat L., Wallingford K.: Improving the Health of Workers in Indoor Environments: Priority Research Needs for a National Occupational Research Agenda. *Am J Pub Health*, 92(9):1430-1440, 2002.
11. Esswein E., Kiefer M., Wallingford K., Burr G., Lee L., Wang J., Wang S., and Su I.: Environmental and Occupational Health Response to SARS, Taiwan, 2003. *Emerg Infect Dis*, 10(7):1187-1194, 2004.
12. Tapp L., Baron S., Bernard B., Driscoll R., Mueller C., Wallingford K.: Physical and Mental Health Symptoms among NYC Transit Workers Seven and One-Half Months after the WTC Attacks. *Am J Ind Med*, 47(6):475-483, 2005.

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13. Van Campen L., Morata T., Kardous C., Gwin K., Wallingford K., Dallaire J., Alvarez F.: Ototoxic Occupational Exposures for a Stock Car Racing Team: I. Noise Surveys. *J Occ Env Hyg*, 2(8):383-390, 2005.
14. Gwin K., Wallingford K., Morata T., Van Campen L., Dallaire J., Alvarez F.: Ototoxic Occupational Exposures for a Stock Car Racing Team: II. Chemical Surveys. *J Occ Env Hyg*, 2(8):406-413, 2005.

Selected Book Chapters and Invited Reviews

Melius J., Wallingford K., McCunney R.: The Health Hazard Evaluation: Investigating Occupational Health Problems in: The Handbook of Occupational Medicine. American Occupational Medicine Association, Arlington Heights, Illinois. R.J. McCunney Ed. 1988.

BIOGRAPHICAL SKETCH

03-30-2006

Mei Lin Wang, M.D., M.P.H.		Epidemiologist Tel: (304) 285 6255 E-mail: MWang@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Shanghai Medical University, School of Medicine, Shanghai, PRC	M.D.	1979	Medicine
Shanghai Medical University, School of Public Health, Shanghai, PRC	M.P.H.	1984	Industrial Hygiene and Occupational Medicine
Mount Sinai School of Medicine, New York, NY 10029, USA	M.Sc.	1991	Community Medicine

Positions

1993-1997	Research Assistant Professor, Dept. of Medicine / Section of Pulmonary and Critical Care Medicine, School of Medicine, West Virginia University, Morgantown, WV
1997-2002	Senior Staff Fellow, Surveillance Branch, Division of Respiratory Disease Study/Clinical Investigation/Field Study, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
1997-Date	Adjunct Associate Professor, Dept. of Medicine / Section of Pulmonary and Critical Care Medicine, School of Medicine, West Virginia University, Morgantown, WV
2002-Date	Epidemiologist, Surveillance Branch, Division of Respiratory Disease Study, Workforce Screening and Surveillance Team, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

2001	Awarded an honorable certificate in recognition of the paper - Petsonk, E.L., Wang, M.L., Lewis, D.M., Siegel, P.D., and Husberg, B.J.: Asthma and asthma-like symptoms in wood product plant workers exposed to Methylene Diphenyl Diisocyanate. Chest 2000; 118:1183-1193, nominated for demonstrating excellence in science as a candidate for the Charles C. Shepard Science Award Assessment and Epidemiology by CDC/ATSDR.
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Other Experience and Professional Memberships

1988-1991	Charles A. Dana Foundation Post-doctoral Fellow in Environmental and Occupational Epidemiology at Division of Environmental and Occupational Medicine, Department of Community Medicine, Mount Sinai School of Medicine, New York, USA
1989-1993	Committee Member of American Public Health Association, Branch of Epidemiology, Washington, USA
1992-Date	NIOSH certified "B" reader
1994-1996	Committee Member of Society for Epidemiologic Research, Maryland, USA
1997-2002	Committee Member of American Public Health Association, Branch of Epidemiology, Washington, USA
2003-Date	Committee Member of the society for Epidemiologic Research, Maryland, USA

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Peer Reviewed Publications

1. Wang, M.L., McCabe, L., Hankinson, J.L., Shammisain, M., Gunel, E., Lapp, N.L., Banks, D.E.: Longitudinal and cross sectional analyses of pulmonary function in steel workers. *Am J Respir Crit Care Med*, 153:1907-1913, 1996.
2. Banks, D.E., Wang, M.L., Billie, M., McCabe, L., Hankinson, J.L.: Improvement in lung function measurements using a flow spirometer which emphasizes computer assessment of test quality. *Occup Environ Med*, 38 3:279-283, 1996.
3. Wang, M.L., McCabe, L., Petsonk, E.L., Hankinson, J.L., Banks, D.E.: Weight gain and longitudinal changes in lung function in steel workers. *Chest*, 111:1526-1532, 1997.
4. Wang, M.L., Petsonk, E.L., Beeckman, L.F., Wagner, G.R.: Clinically important FEV1 declines among coal miners: An exploration of previously unrecognized determinants. *Occup Environ Med*, 56:837-844, 1999.
5. Banks, D.E. Shah, A.A., Marco, L., Wang, M.L.: Chest illnesses and the decline of FEV1 in steel workers. *JOEM*, 41 12:1085-1090, 1999.
6. Petsonk, E.L., Wang, M.L., Lewis, D.M., Siegel, P.D., Husberg, B.J.: Asthma and asthma-like symptoms in wood product plant workers exposed to Methylene Diphenyl Diisocyanate. *Chest*, 118:1183-1193, 2000.
7. Wang, M.L., Gunel, E., Petsonk, E.L.: Design strategies for longitudinal spirometry studies: Duration and frequency of testing. *Am J Respir Crit Care Med*, 162:2134-8, 2000.
8. Beeckman, L.F., Wang, M.L., Wagner, G.R., Petsonk, E.L.: Accelerated declines in FEV1 and subsequent increased respiratory symptoms, illnesses, and mortality in coal miners. *Am J Respir Crit Care Med*, 163: 633-639, 2001.
9. Hongfei L., Wang, M.L., Ducatman, A., Seixas N., Petsonk, E.L.: Respiratory protection: Associated factors and effectiveness of respirator use among underground coal miners. *AJIM*, 42:55-62, 2002.
10. Wang M.L., Petsonk E.L.: Repeated measures of FEV1 over six to twelve months: What change is abnormal? *JOEM*, 46 6: 591-595, 2004.
11. Wang, M.L., Petsonk, E.L.: Symptom onset in the first 2 years of employment at a wood products plant using diisocyanates: some observations relevant to occupational medical screening. *AJIM*, 46:226-233, 2004.
12. Wang M.L., Wu Z.E., Du Q.G., Petsonk E.L., Peng K.L., Li Y.D., Li S.K., Han G.H., Attfield M.D.: A prospective cohort study among new Chinese coal miners – The early pattern of lung function change. *Occup Environ Med*, 62:800-805, 2005.
13. Daroowalla F., Wang, M.L., Piacitelli C., Attfield M., Kreiss K: Flock workers' exposures and respiratory symptoms in five plants. *AJIM*, 47 2:144-152, 2005.
14. Wang, M.L., Avashia, B.H., Petsonk, E.L.: Interpreting periodic lung function tests in individuals: The relationship between 1- to 5-year and long-term FEV1 changes. (*Chest*, 2006, in press)

Book Chapters and Invited Reviews

Wang, M.L., Banks, D.E.: Airways obstruction and occupational inorganic dust exposure; in: Occupational Lung Disease: An International Perspective, London: Chapman & Hall, Ltd. Publishers. Banks, D.E. Parker, J. Eds. pp. 69-82, 1998.

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BIOGRAPHICAL SKETCH

03-30-2006

David Weissman, M.D.	Senior Medical Officer Tel: (304) 285 5749 E-mail: DWeissman@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Northwestern University, Evanston, IL	B.S.	1976	Biomedical Sciences
Northwestern University Medical School	M.D.	1978	Medicine
Michael Reese Hospital, Chicago, IL	Internship	1979-1980	Internal Medicine
Tulane University Medical School	Residency	1981-1982	Internal Medicine
Tulane University Medical School	Chief Resident	1982-1983	Allergy
Tulane University Medical School	Combined	1983-1986	Immunology
	Fellowship		Pulmonary Diseases

Positions

1986-1992	Assistant Professor, University of New Mexico Medical School, Dept. of Internal Medicine,
1986-1993	Staff Physician, Division of Pulmonary and Critical Care Medicine, VAMC Albuquerque.
1992	Associate Professor, University of New Mexico Medical School, Dept. of Internal Medicine
1992- 1997	Associate Professor, West Virginia University Medical School, Dept. of Internal Medicine
1995	Interim Chief, WVU Division of Pulmonary and Critical Care Medicine, January-June
1997-1999	Senior Medical Officer, NIOSH, DRDS, Clinical Investigations Branch,.
1997-Date	Adjunct Professor, WVU Medical School, Dept. of Microbiology and Immunology
1999	Acting Medical Team Leader, NIOSH, DRDS, Field Studies Branch
2000-2004	Team Leader, NIOSH, Health Effects Laboratory Division, Analytical Services Branch
2004	Acting Branch Chief, NIOSH-HELD, Analytical Services Branch
2005	Division Chief, NIOSH, Division of Respiratory Disease Studies

Honors

1982	Diplomate, American Board of Internal Medicine
1985	Diplomate, American Board of Allergy and Immunology,
1986	Diplomate, American Board of Internal Medicine, Subspecialty in Pulmonary Diseases
1989-1999	Diplomate, American Board of Internal Medicine, Subspecialty in Critical Care Medicine

Peer Reviewed Publications

1. Huang S.H., Hubbs A.F., Stanley C.F., Vallyathan V., Schnabel P.C., Rojanasakul Y., Ma J.K.H., Banks D.E., Weissman D.N.: Immunoglobulin responses to experimental silicosis. *Toxicol Sci*, 59:108-117, 2001.
2. Antonini J.M., Roberts J.R., Clarke R.W., Yang H.M., Barger M.W., Jernigan M.R., Ma J.Y.C., Weissman D.N.: Effect of age on respiratory defense mechanisms and pulmonary bacterial clearance in Fischer 344 rats after intratracheal instillation of listeria monocytogenes. *Chest*, 120:240-249, 2001.
3. Ortega H.G., Daroowala F., Petsonk E.L., Lewis D., Berardinelli S., Jones W., Kreiss K., Weissman D.N.: Evaluation of respiratory symptoms among crab processing workers in Alaska: Epidemiological and environmental assessment. *Am J Ind Med*, 39:598-607, 2001.
4. Weissman D.N., Hubbs A.F., Huang S.H., Stanley C.F., Rojanasakul Y., Ma J.K.H.: LgG subclass responses in experimental silicosis. *J Environ Pathol Toxicol Oncol*, 20 Suppl. 1:67-74, 2001.
5. Ortega H.G., Banks D.E., Carter D., Weissman D.N.: Use of specific inhalation challenge in the evaluation of workers at risk for occupational asthma. *Chest*, 121:1317-1322, 2002.
6. Saxena R.K., Weissman D., Simpson J., Lewis D.M.: Murine model of BCG lung infection: Dynamics of lymphocyte subpopulations in lung interstitium and tracheal lymph nodes. *J Biosci*, 27:143-53, 2002.

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7. Al-Humadi N.H., Siegel P.D., Lewis D.M., Barger M.W., Ma J.Y., Weissman D.N., Ma J.K.: Alteration of intracellular cysteine and glutathione levels in alveolar macrophages and lymphocytes by diesel exhaust particle exposure. *Environ Health Perspect*, 110:349-53, 2002.
8. Saxena R.K., Weissman D.N., Saxena Q.B., Simpson J., Lewis D.M.: Kinetics of changes in lymphocyte sub-populations in mouse lungs and after intrapulmonary infection with *M. bovis* (Bacillus Calmette-Guerin) and identity of cells responsible for IFN-gamma responses. *Clin Exp Immunol*, 128:405-410, 2002.
9. Weissman D.N., Lewis D.M.L.: Allergic and latex specific sensitization: route, frequency, and amount of exposure required to initiate IgE production. *J Allergy Clin Immunol*, 110:S57-S63, 2002.
10. Al-Humadi N.H., Siegel P.D., Lewis D.M., Barger M.W., Ma J.Y., Weissman D.N., Ma J.K.H.: The effect of diesel exhaust particles (DEP) and carbon black (CB) on thiol changes in pulmonary ovalbumin allergic sensitized brown Norway rats. *Exp Lung Res*, 28:333-349, 2002.
11. Howell M.D., Weissman D.N., Meade B.J.: Latex sensitization by dermal exposure can lead to airway hyper-reactivity. *Int Arch Allergy Immunol*, 128:204-211, 2002.
12. Yin X.J., Schafer R., Ma J.Y., Antonini J.M., Weissman D., Siegel P.D., Barger M.W., Roberts J.R., Ma J.K.: Alteration of pulmonary immunity to *Listeria monocytogenes* by diesel exhaust particles (DEPs). I. Effects of DEPs on early pulmonary responses. *Environ Health Perspect*, 110 11:1105-11, 2002.
13. Yin X.J., Schafer R., Ma J.Y., Antonini J.M., Roberts J.R., Weissman D.N., Siegel P.D., Ma J.K.: Alteration of pulmonary immunity to *Listeria monocytogenes* by diesel exhaust particles (DEPs). II. Effects of DEPs on T-cell-mediated immune responses in rats. *Environ Health Perspect*, 111 4:524-30, 2003.
14. Hogan M.B., Weissman D.N., Hubbs A.F., Gibson L.F., Piktel D., Landreth K.S.: Regulation of eosinophilo-poiesis in a murine model of asthma. *J Immunol*, 171 5:2644-51, 2003.
15. Zeiss C.R., Gomaa A., Murphy F.M., Weissman D.N., Hodgson M., Foster D., Dejativongse S., Colella K., Kestenber K., Kurup V.P., Bush R.K., Chiu A.M., Kelly K.J., Fink J.N.: Latex hypersensitivity in VA healthcare workers: glove use, symptoms and sensitization. *Ann Allergy Asthma Immunol*, 91 6:539-45, 2003.
16. Biagini R.E., Schlottmann S.A., Sammons D.L., Smith J.P., Snawder J.C., Striley C.A., MacKenzie B.A., Weissman D.N.: Method for simultaneous measurement of antibodies to 23 pneumococcal capsular polysaccharides. *Clin Diagn Lab Immunol*, 10 5:744-750, 2003.
17. Rao G.V., Tinkle S., Weissman D.N., Antonini J.M., Kashon M.L., Salmen R., Battelli L.A., Willard P.A., Hubbs A.F., Hoover M.D.: Efficacy of a technique for exposing the mouse lung to particles aspirated from the pharynx. *J Toxicol Environ Health*, A, 66 15:1441-52, 2003.
18. Saxena R.K., Saxena Q.B., Weissman D.N., Simpson J.P., Bledsoe T.A., Lewis D.M.L.: Effect of diesel exhaust particulate on bacillus Calmette-Guerin lung infection in mice and attendant changes in lung interstitial lymphoid subpopulations and IFN-gamma response. *Toxicol Sci*, 73 1:66-71, 2003.
19. Hettick J.M., Kashon M.L., Simpson J.P., Siegel P.D., Mazurek G.H., Weissman D.N.: Proteomic profiling of intact mycobacteria by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. *Anal Chem*, 76 19:5769-76, 2004.
20. Nicolaysen P., Klink K.J., Shriver E., Knutsen F., Hubbs A.F., Depree G., Siegel P.D., Weissman D.N., Whitmer M., Meade B.J.: Local and systemic toxicity in mice following subcutaneous implantation of latex penrose drains. *J Toxicol -Cut Ocular Toxicol*, 23:233-248, 2004.
21. Bang K.M., Weissman D.N., Wood J.M., Attfield M.D.: Tuberculosis mortality by industry and occupation in the United States, 1990-1999. *Int J Tuberc Lung Dis*, 9 4:1-6, 2005.
22. Akpinar-Elci M., Stemple K.J., Enright P.L., Fahy J.V., Bledsoe T.A., Kreiss K., Weissman D.N.: Induced sputum evaluation in microwave popcorn production workers. *Chest*, in press, 2005.

BIOGRAPHICAL SKETCH

03-29-2006

John Raymond (Ray) Wells, Ph.D.	Research Chemist Tel: (304) 285 6341 E-mail: RWells@dcd.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Georgia Institute of Technology	B.S. (cooperative plan)	1982-87	Chemistry
Northwestern University	M.S.	1987-88	Inorganic Chemistry
Northwestern University	Ph.D.	1988-92	Physical/Inorganic Chemistry

Positions

1983-1987	Co-op Student, Atmospheric Research Group, Georgia Tech Research Institute, Atlanta, GA
1992-1995	Research Chemist, ManTech Environmental, Tyndall AFB, FL
1995-1999	Research Chemist, USAF Air Force Research Laboratory, Tyndall AFB, FL
1999-2001	Deputy Branch Chief, Respirator Branch, Division of Respiratory Disease Studies, NIOSH, Morgantown, WV
2001	Research Chemist, Exposure Assessment Branch, Health Effects Laboratory Division, NIOSH, Morgantown, WV
2001	NIOSH Peer Review Panel and NORA Indoor Environment Team
2002	Acting Branch Chief, Exposure Assessment Branch, Health Effects Laboratory Division, NIOSH, Morgantown, WV

Peer Reviewed Publications

1. K. A.R. Ravishankara, P. H. Wine, J. R. Wells, R. L.: Thompson inetic study of the reaction of OH with HCl from 240- 1055, *Int J Chem Kinet.*, 17, 1281, 1985.
2. R. Ravishankara, P. H. Wine, J. R. Wells: The OH + HBr reaction revisited. *Chem Phys*, 83, 447, 1985.
3. P. H. Wine, J. R. Wells, A. R. Ravishankara: Channel specific rate constants for the reactions of O(¹D) with HCl and HBr., *J Chem Phys*, 84, 1349, 1986.
4. P. H. Wine, J. M. Nicovich, A. J. Hynes, J. R. Wells: CH₃SH photolysis at 248 nm. hydrogen atom yield and rate constant for the H + CH₃SH reaction. *J Phys Chem*, 90, 4033, 1986.
5. P. H. Wine, J. R. Wells, J. M. Nicovich, J Kinetics of the reactions of F(²P) and Cl(²P) with HNO₃...: *Phys Chem.*, 92, 2223, 1988.
6. P. H. Wine, Y. Tang, R. P. Thorn, J. R. Wells, D. D. Davis, J.: Kinetics of aqueous phase reactions of the SO₄ radical with potential importance in cloud chemistry. *Geophys Res*, 94, 1085, 1989.
7. P. L. Bogdan, J. R. Wells, Eric Weitz: The reaction of W(CO)₅ with the unlikely ligands N₂O and CF₂Cl₂. *J Am Chem Soc*, 113, 1294, 1991.
8. J. R. Wells, Eric Weitz: Rare gas-metal carbonyl complexes: bonding of rare gas atoms to the group VI Pentacarbonyls. *Am Chem Soc*, 114, 2783, 1992.
9. J. R. Wells, Eric Weitz: A time-resolved fourier transform infrared study of the catalytic hydrogenation of C₂H₄ following UV photolysis of mixtures of Fe(CO)₅, C₂H₄, and H₂. *J Phys Chem.*, 97, 3084, 1993.
10. J. R. Wells, P. G. House, Eric Weitz: The interaction of H₂ and prototypical solvent molecules with Cr(CO)₅ in the gas phase. *J Phys Chem*, 98, 8343, 1994.
11. J.R. Wells, D.C. Williams, J.S. Baxley, D.F. Smith: The products of the reaction of the hydroxyl radical with 2 ethoxyethyl acetate. *Int J Chem Kinet.*, 28, 475, 1996.
12. J.R. Wells, S. J Markgraf : The hydroxyl radical reaction rate constants and atmospheric reaction products of three siloxanes. *Int J Chem, Kinet.* 29, 445, 1997.

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13. J.R.Wells, J.S Baxley, M.V. Henley: The hydroxyl radical reaction rate constant and products of ethyl 3-ethoxypropionate. *Int J Chem Kinet*: 29, 637, 1997.
14. J.R.Wells, J.S. Baxley The hydroxyl radical reaction rate constant and atmospheric transformation products of 2- Butanol and 2-Pentanol.: *Int J Chem Kinet*, 30, 745, 1998.
15. J.R.Wells, J. S. Semple, S.J. Markgraf : The Hydroxyl radical reaction rate constant and atmospheric transformation products of 2-Propoxyethanol. *Int J Chem Kinet*, 31, 315, 1999.
16. J.R.Wells, S.E. Wyatt, S.J. Baxley: The hydroxyl radical reaction rate constant and atmospheric transformation products of Methyl Isobutyrate. *Int J Chem Kinet*, 31, 551, 1999.
17. W.R. Bradley, J.R. Wells, S.E. Wyatt, M.V. Henley, G.M. Graziano: The hydroxyl radical reaction rate constant and products of Cyclohexanol. *Int J Chem Kinet*, 33, 108, 2001.
18. J. R Wells: The hydroxyl radical reaction rate constant and products of 3,5-Dimethyl-1-hexyn-3-ol. *Int J Chem Kinet*, 36, 534, 2004.
19. J. R. Wells: Gas-phase chemistry of alpha-terpineol with ozone and OH radical: Rate constants and products. *Environ Sci Technol*, 39, 6937, 2005.
20. J.E. Ham, S.P. Proper, J.R. Wells: Gas-phase chemistry of citronellol with ozone and OH radical: Rate constants and products. *Atmos Environ*, 40 726, 2006.
21. C.D. Forester, J.E. Ham, J.R. Wells: Gas-phase chemistry of dihydromyrcenol with ozone and OH radical: Rate constants and products. Accepted for pub in *Int J Chem Kinet*, 2006.

Book Chapter and Invited Reviews

1. Eric Weitz, J. R.Wells, R. J. Ryther, P.: House, in bond energies and reaction kinetics of coordinatively unsaturated metal carbonyls. *Laser Chemistry of Organometallics*, American Chemical Society: Washington, D.C. 1993.
2. C. J. Weschler, R. Wells: Editorial. *Indoor Air*, 14, 373, 2004.

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Research Activities, Completed Research Support

- 06/95-06/96 Air Force Research Laboratory Project, Ray Wells (PI), USAF: Atmospheric Chemistry of Coating Systems. The goal of this project was to investigate the time-resolved volatile organic compound emission profiles of fifteen new chromate free coating systems and use the chemicals' emission profiles coupled with their maximum incremental reactivity (tendency to form ground level ozone) to assess the atmospheric impact of the coatings. This assessment was used in conjunction with the coating performance assessment by decision makers to select the best performing and most environmentally benign coating. Role: Principal Investigator
- 10/96-07/97 Air Force Research Laboratory Project, Ray Wells (PI), USAF/US Army: Atmospheric Chemistry of Chemical Agent Resistant Coatings. The goal of this project was to assess the atmospheric impact of new chemical agent resistant coatings used on US Army vehicles by investigating the time-resolved volatile organic compound emission profiles and couple the chemical emission profiles with their maximum incremental reactivity (tendency to form ground level ozone). This assessment was used in conjunction with the coating performance assessment by decision makers to select the best performing and most environmentally benign coating. Role: Principal Investigator
- 04/98-11/98 Cooperative Research and Development Agreement (CRADA), Ray Wells (PI), USAF/Chemical Manufacturer. Atmospheric Chemistry of Selected Volatile Organic Compound. The goal of this project was to investigate the gas phase kinetics and mechanisms of a potential environmentally friendly solvent that could be used in many Air Force formulations. Role: Principal Investigator
- 12/92-09/99 Air Force Research Laboratory Research Project, Ray Wells (PI), USAF: Atmospheric Chemistry of Volatile Organic Compounds. The goal of this project was to investigate the fundamental gas phase atmospheric chemistry (kinetics and mechanisms) and transition the research results to decision makers to select the most environmentally benign materials. Role: Principal Investigator
- 10/01-09/03 Exposure Assessment Branch, Ray Wells (PI), National Institute for Occupational Safety and Health (NIOSH): Gas-Phase Chemistry of Indoor Environments. The goal of this project was to investigate the fundamental gas-phase chemistry (kinetics and mechanisms) of volatile chemicals emitted in the indoor environment to more accurately describe workplace exposures. Role: Principal Investigator
- 10/04-09/06 Exposure Assessment Branch, Ray Wells (Co-PI), National Institute for Occupational Safety and Health (NIOSH): Estimation of Exposure to Oxidized Terpene Products. The goal of this project was to investigate the fundamental gas-phase chemistry (kinetics and mechanisms) of volatile terpenes used in consumer products to develop both workplace sampling techniques and improved workplace exposure assessments. Role: Co-Principal Investigator

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BIOGRAPHICAL SKETCH

03-30-2006

Ainsley Weston, Ph.D.		Associate Director for Science, OD, DRDS, NIOSH Tel: (304) 285 6221 E-mail: AWeston@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Greenwich University; London, UK	B.Sc.	1977	Applied Biology
Greenwich University; London, UK	M.Phil.	1980	Tumor Immunology
University of London; London, UK	Ph.D.	1984	Carcinogen
Chester Beatty Labs; London, UK		1980-84	Biochem.
Laboratory of Human Carcinogenesis,		1984-87	Research Fellow
NCI, National Institutes of Health;		1987-90	Visiting Fellow
Bethesda, MD		1990-93	Visiting Associate
Johns Hopkins U.; Baltimore, MD	Epidemiology (no degree - FTE US government)	1989-91	Visiting Scientist Graduate Summer Program

Positions

1992-1993	Chief (Acting), Molecular Epidemiology Section, LHC/NCI/NIH; Bethesda, MD
1993-1997	Associate Prof. Dept. Community Medicine, Mt. Sinai Med. School (MSSM); New York, NY
1993-1996	Deputy Center Director, Environ. Health Sciences Center (EHSC), MSSM; New York, NY
1996-1997	Director, Molecular Genetic Analysis Core, MSSM/EHSC; New York, NY
1997-2006	Leader, Molecular Epidemiology Team, NIOSH/CDC; Morgantown, WV
2006-Date	Associate Director for Science, OD, DRDS/NIOSH/CDC; Morgantown, WV

Honors

1991	NCI: Recognition Award for Equal Employment Opportunity
1995	Recognized for Dedication to Advancement of Scientific Knowledge, Mt Sinai, NYC
2002	Alice Hamilton Award for Excellence in Occupational Safety and Health Research

Peer Reviewed Publications (Jan 2002-Apr 2005; from a total of 95 since 1983)

1. Keshava, C., Frye, B.L., Wolff, M.S., McCanlies, E.C., Weston, A.: Waf 1 (p21) and p53 polymorphisms in breast cancer. *Cancer Epidemiol Biomarkers Prev*, 11:127-130, 2002.
2. Weston, A., Ensey, J.S., Kreiss, K., Keshava, C., McCanlies, E.C.: Racial differences in prevalence of a supratypic HLA-genetic marker immaterial to pre-employment testing for chronic beryllium disease. *Am J Ind Med*, 41:457-465, 2002.
3. McCanlies, E.C., Kreiss, K., Andrew, M.E., Weston, A.: *HLA-DPB1* and chronic beryllium disease: a HuGE review. *Am J Epidemiol*, 157:388-398, 2003.
4. Snyder, J.A., Weston, A., Tinkle S.S., and Demchuk, E.: Electrostatic potential on human leukocyte antigen: implications for putative mechanism of chronic beryllium disease. *Environ Health Perspect*, 111:1827-1834, 2003.
5. McCanlies, E.C., Ensey, J.S., Schuler C.R., Kreiss, K., Weston, A.: The association between *HLA-DPB1^{Glu69}*, beryllium sensitization and chronic beryllium disease. *Am J Ind Med*, 46:95-103, 2004.
6. Keshava, C., McCanlies, E.C., Weston, A.: *CYP3A4* Polymorphisms in breast and prostate cancer: a HuGE review. *Am J Epidemiol*, 160:825-841, 2004.
7. Keshava, C., Whipkey, D.L., Weston, A.: Transcriptional signatures of environmentally relevant exposures in normal human mammary epithelial cells: benzo[a]pyrene. *Cancer Lett*, 221: 201-211, 2005.

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8. Keshava, C., Rao, D., Whipkey, D.L., Frye, B.L., McCanlies, E.C., Kuo, M., Poirier, M.C., Weston, A.: Induction of *CYP1A1* and *CYP1B1* and formation of carcinogen-DNA adducts in normal human mammary epithelial cells treated with benzo[a]pyrene. *Cancer Lett*, 221:213-224, 2005.
9. Gwinn, M.R., Whipkey, D.L., Weston, A.: The effect of oxythioquinox exposure on normal human mammary epithelial cell gene expression: a microarray analysis study. *Environ Health: A Global Access Science Source*, 3:9-19, 2004.
10. Mahadevan, B., Keshava, C., Mustafia-Jeknic, T., Pecaj, A., Weston, A., Baird, W.M.: Altered gene expression patterns in MCF-7 cells induced by the urban dust particulate complex mixture SRM 1649a. *Cancer Res*, 65:1251-1258, 2005.
11. Hooven, L.A., Mahadevan, B., Keshava, C., Perira, C., Desai, D., Amin, S., Weston, A., Baird, W.M.: Effects of suberoylanilide hydroxamic acid and trichostatin A on induction of cytochrome P450 enzymes and benzo[a]pyrene DNA adduct formation in human cells. *Bioorg Med Chem Lett*, 15:1283-1287, 2005.
12. Weston, A., Snyder, J.A., McCanlies, E.C., Schuler, C.R., Kreiss, K., Demchuk, E.: Immunogenic factors in chronic beryllium disease. *Mutat Res*, 592:68-78, 2005.
13. Weston, A., Ensey, J.S., Frye, B.L.: DNA-sequence determination of a novel *HLA-DPBI* allele. *DNA Seq*, 16:235-236, 2005.
14. Gwinn, M.R., Whipkey, D.L., Tennant, L.B., Weston, A.: Differential gene expression in normal human mammary epithelial cells treated with malathion monitored by DNA microarrays. *Environ Health Perspect*, 113:1046-1051, 2005.
15. Beland, F.A., Churchwell, M.I., Von Tungeln, L.S., Chen, S., Fu, P.P., Culp, S.J., Schoket, B., Györfy, E., Minárovits, J., Poirier, M.C., Bowman, E.D., Weston, A., Doerge, D.R.: High-performance liquid chromatography electrospray ionization tandem mass spectrometry for the detection and quantitation of benzo[a]pyrene-DNA adducts. *Chem Res Toxicol*, 18:1306-1315, 2005.
16. Day, G.A., Stefaniak, A.B., Weston, A., Tinkle S.S.: Beryllium exposure: dermal and immunological considerations. *Int Arch Occup Environ Health*, 79:161-164, 2006.

Book Chapters and Invited Reviews (Jan 2002-Apr 2005; from a total of 42 since 1985)

1. Poirier, M.C. and Weston, A.: DNA damage, DNA repair, and mutagenesis; in *Encyclopedia of Cancer*, second edition, Academic Press, San Diego, CA. Ed. J.R. Bertino. Volume 1, pp.641-649, 2002.
2. National Occupational Research Agenda (NORA) Team for Occupational Cancer Research.: Methods: The national agenda for research methods in occupational cancer. *Environ Health Perspect*, 111:1-12, 2003.
3. Tinkle, S.S., Weston, A., Flint, M.S.: Genetic factors modify the risk of developing beryllium disease. *Semin Respir Crit Care Med*, 24:169-177, 2003.
4. McCanlies, E.C., Weston, A.: Immunogenetic factors in berylliosis; in *Human Genome Epidemiology*, Oxford University Press, New York, NY. Eds. M.J. Khoury, J. Little, W. Burke. pp. 383-401, 2003.
5. Weston, A., Poirier, M.C.: Carcinogen DNA-adducts and DNA repair; in *Encyclopedia of Toxicology*, third edition, Springer-Verlag, Berlin, Heidelberg, FRG. Ed. P. Wexler. Volume 1:pp. 440-444, 2005.
6. Weston, A., Harris, C.C.: Chemical carcinogenesis; in *Cancer Medicine*, seventh edition, B.C. Decker Inc., Hamilton, ON. Eds. J.F. Holland, E. Frei, III. pp.246-258, 2005.
7. Tinkle, S.S., Weston, A.: Chronic beryllium disease; in *Encyclopedic Reference of Immunotoxicology*, third edition, Springer-Verlag, Berlin, Heidelberg, FRG. Ed. H-W. Vohr. pp.139-142, 2005.

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Research Support

- 10/00-09/02 Office of Women's Health: Genetic basis of cellular response to di-n-butyl phthalate. Role and Effort: PI (5%) \$119,000.
- 10/97-09/05 NIOSH – HELD: Intramural discretionary funding. Role and Effort: PI (100%) \$1,112,752.
- 10/99-09/05 NIOSH – HIV: Pharmacogenomics of Zidovudine. Role and Effort: PI (5%) \$300,000.
- 07/04-09/05 Department of Energy: Immunogenetics of CBD. Role and Effort: PI (50%) \$100,000.

BIOGRAPHICAL SKETCH

07-10-2006

Elizabeth Whelan, Ph.D.	Chief Industrywide Studies Branch, DSHEFS Tel: (513) 841 4437 E-Mail: ewhelan@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Tufts University, Medford, MA	B.Sc	1982	Biology
University of North Carolina at Chapel Hill, Chapel Hill, NC	M.S.P.H.	1986	Epidemiology
University of North Carolina at Chapel Hill, Chapel Hill, NC	Ph.D.	1991	Epidemiology

Positions

- 1991 EIS Officer, CDC, NIOSH, Division of Surveillance, Hazard Evaluations and Field Studies, Cincinnati, OH.
- 1993 Epidemiologist, CDC, NIOSH, Division of Surveillance, Hazard Evaluations and Field Studies, Cincinnati, OH
- 2004 Branch Chief, CDC, NIOSH, Industrywide Studies, Division of Surveillance, Hazard Evaluations and Field Studies, Cincinnati, OH.

Peer Reviewed Publications

- Whelan EA, Lawson CC, Grajewski B, Hibert E, Spiegelman D, Rich-Edwards J. Work schedule during pregnancy and spontaneous abortion: results from the Harvard Nurses Health Study. (*submitted*)
- Prince MM, Ruder AM, Hein MJ, Waters MA, Whelan EA, Nilsen N, Ward EM, Schnorr TM, Laber PA, Davis-King K. Mortality and Exposure-Response Among 14,458 Electrical Capacitor Manufacturing Workers Exposed to Polychlorinated Biphenyls (PCBs). (*submitted*)
- Prince MM, Hein MJ, Ruder AM, Waters MA, Laber PA, Whelan EA. Update: cohort mortality study of workers highly exposed to polychlorinated biphenyls (PCBs) during the manufacture of electrical capacitors, 1940-1998. *BMC Environ Health* 2006, 5:13 doi:10.1186/1476-069X-5-13.
- Ruder AM, Hein MJ, Nilsen N, Waters MA, Laber P, Davis-King K, Prince MM, Whelan EA. Mortality Among Workers Exposed to Polychlorinated Biphenyls (PCBs) in an Electrical Capacitor Manufacturing Plant in Indiana: An Update. *Environ Health Perspect* 2006;114:18-23.
- Steenland K, Hein MJ, Cassinelli RT, Prince MM, Nilsen NB, Whelan EA, Waters MA, Ruder AM, Schnorr TM. Polychlorinated biphenyls and neurodegenerative disease mortality in an occupational cohort. *Epidemiology* 2006;17:8-13.
- Lawson CC, Grajewski B, Daston GP, Frazier LM, Lynch D, McDiarmid M, Muroso E, Perreault SD, Robbins WA, Ryan MAK, Shelby M, and Whelan EA. Implementing a National Occupational Reproductive Research Agenda: Decade One and Beyond *Environ Health Perspect* 2006; 114:435-441.
- Lawson CC, Schnorr TM, Whelan EA, Deddens JA, Dankovic DA, Piacitelli LA, Sweeney MH, Connally LB. Paternal Occupational Exposure to 2,3,7,8-Tetrachlorodibenzo-*p*-dioxin and Birth Outcomes of Offspring: Birth Weight, Preterm Delivery, and Birth Defects. *Environmental Health Perspectives* 2004;112(14):1403-1408.
- Huang K, Whelan EA, Ruder AM, Ward EM, Deddens JA, Davis-King KE, Carreon T, Waters MA, Butler MA, Calvert GM, Schulte PA, Zivkovich Z, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD. Reproductive factors and risk of glioma in women. *Cancer Epidemiol Biomarkers Prev* 2004;13(10): 1583-8.
- Grajewski B, Atkins D, Whelan EA. Self-reported flight hours vs. company records for epidemiologic studies of flight attendants. *Aviat Space Environ Med* 2004;75:806-810.

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10. Whelan EA, Lawson CC, Grajewski B, Petersen MR, Pinkerton LE, Ward EM, Schnorr TM. Prevalence of respiratory symptoms among female flight attendants and teachers. *Occup Environ Med* 2003;60:935-941.
11. Grajewski B, Nguyen MM, Whelan EA, Cole RJ, Hein MJ. Measuring circadian rhythm disruption in female flight attendants. *Scand J Work Environ Health* 2003;29:337-346.
12. Whelan EA. Cancer incidence in airline cabin crew (Editorial). *Occup Environ Med* 2003;60:805-806.
13. Steenland NK, Whelan EA, Deddens JA, Stayner L, Ward EM. Ethylene oxide and breast cancer incidence in a cohort study of 7,576 women (United States). *Cancer Causes and Control* 2003;14:531-539.
14. MacDonald LA, Deddens JA, Grajewski B, Whelan EA, Hurrell J. Job stress among female flight attendants. *J Occup Environ Med* 2003;45:703-714.
15. Whelan EA, Grajewski B, Wood E, Kwan L, Nguyen M, Schnorr TM, Knecht EA, Kesner JS. Feasibility issues in reproductive biomonitoring of female flight attendants and teachers. *J Occup Environ Med* 2002;44:947-955.
16. Grajewski B, Waters MA, Whelan EA, Bloom TF. Radiation dose estimation and other design considerations for epidemiologic studies of flight attendants. *Am J Indust Med* 2002;41:27-37.
17. Schnorr TM, Lawson CC, Whelan EA, Dankovic DA, Deddens JA, Piacitelli LA, Reefhuis J, Sweeney MH, Connally LB, Fingerhut MA. Paternal chemical herbicide exposure and spontaneous abortion. *Environ Health Perspect* 2001;109:1127-32.
18. Yong LC, Schulte PA, Wiencke JK, Boeniger MF, Connally LB, Walker JT, Whelan EA, Ward EM. Hemoglobin adducts and sister chromatid exchanges in hospital workers exposed to ethylene oxide: effects of glutathione s-transferase T1 and M1 genotypes. *Cancer Epidemiol Biomarkers Prev* 2001 10: 539-550.
19. Cooper GS, Ephross SA, Weinberg CR, Baird DD, Whelan EA, Sandler DP. Menstrual and reproductive risk factors for ischemic heart disease. *Epidemiology* 1999; 10:255-259.
20. Whelan EA, Piacitelli GM, Gerwel B, Schnorr TM, Mueller CA, Gittleman J, Matte TD. Elevated blood lead levels in children of construction workers. *Am J Public Health* 1997; 87:1352-55.
21. Whelan EA, Risk Assessment Studies: Epidemiology, in Sipes IG, McQueen CA, Gandolfi AJ (eds.), *Comprehensive Toxicology Volume 10*, 1997, page 359-66.
22. Piacitelli GM, Whelan EA, Sieber WK, Gerwel B. Elevated lead contamination in homes of construction workers. *Am Indust Hyg Assoc Journal* 1997; 58:447-454.
23. Cooper GS, Sandler DP, Whelan EA, Smith KR. Association of physical and behavioral characteristics with menstrual cycle patterns in women age 29-31. *Epidemiology* 1996;7:624-628.
24. Grajewski B, Whelan EA, Schnorr TM, Mouradian R, Alderfer R, Wild DK. Evaluation of reproductive function among men occupationally exposed to a stilbene derivative: I. Hormonal and physical status. *Am J Indust Med* 1996;29:41-49.
25. Whelan EA, Grajewski B, Wild DK, Schnorr TM, Alderfer R. Evaluation of reproductive function among men occupationally exposed to a stilbene derivative: II. Perceived libido and potency. *Am J Indust Med* 1996;29:59-65.
26. Piacitelli GM, Whelan EA, Ewers LM, Sieber WK. Lead contamination in automobiles of lead-exposed bridge workers. *Appl Occ Environ Hyg* 1995;10:849-55.
27. Whelan EA, Sandler DP, Root J, Smith KR, Weinberg CR. Menstrual cycle patterns and risk of breast cancer. *Am J Epidemiol* 1994;140:1081-90.
28. Root J, Smith KR, Whelan EA, Sandler D, Voda AM. Tracing women over half a century: strategies to locate subjects lost to follow-up in a longitudinal health study. *Research on Aging* 1994;16:375-388.
29. Whelan EA, Sandler DP, McConaughy DR, Weinberg CR. Menstrual and reproductive factors and age at natural menopause. *Am J Epidemiol* 1990;131:625-632.
30. Savitz DA, Whelan EA, Rowland AS, Kleckner RC. Maternal employment and reproductive risk factors. *Am J Epidemiol* 1990;132:933-45.

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31. Savitz DA, Whelan EA, Kleckner RC. Effect of parents' occupational exposures on risk of stillbirth, preterm delivery, and small-for-gestational-age infants. *Am J Epidemiol* 1989;129:1201-1218.
32. Savitz DA, Whelan EA, Kleckner RC. Self-reported exposure to pesticides and radiation related to pregnancy outcome - results from National Natality and Fetal Mortality Surveys. *Pub Health Rep* 1989;104:473-477.

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BIOGRAPHICAL SKETCH

03 - 30 - 2006

Anita L. Wolfe	Public Health Advisor – Program Coordinator, Coal Workers’ Health Surveillance Program Tel: (304) 285 6263 E-mail: awolfe@cdc.gov
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Positions

1975-1980	Accounting Clerk III, Clerk III, Business Office, College of Agriculture and Forestry, West Virginia University, Morgantown, WV
1980-1982	Mine Training & Compliance Clerk, Personnel Clerk, Clerk-Typist, District 3 Office, Mine Safety and Health Administration, U.S. Department of Labor
1982-2001	Executive Assistant to the Director, Executive Assistant to the Acting Associate Director for Mining, Secretary - Clinical Investigations Branch, Secretary - Clinical Section, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), U.S. Department of Health and Human Services
2001-2005	Program Operations Coordinator, Workforce Screening and Surveillance Team, Coal Workers Health Surveillance Program, Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV
2005-Date	Public Health Advisor, Workforce Screening and Surveillance Team, Coal Workers Health Surveillance Program, Surveillance Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention (CDC), Morgantown, WV

Honors

1986	Superior Work Performance Award	1999	Superior Work Performance Award
1988	Superior Work Performance Award	2000	Special Act Awards (2 awards)
1989	Superior Work Performance Award	2000	Superior Work Performance Award
1990	Superior Work Performance Award	2001	Special Act Award
1992	Superior Work Performance Award	2001	Superior Work Performance Award
1993	Superior Work Performance Award	2002	DHHS Secretary’s Award for Distinguished Service
1994	Special Act Award		
1994	Superior Work Performance Award	2002	Special Act Awards (3 awards)
1995	Superior Work Performance Award	2002	Superior Work Performance Award
1996	Superior Work Performance Award	2003	CDC/ATSDR Honor Award
1997	Special Act Award	2003	Special Act Awards (2 awards)
1997	Superior Work Performance Award	2003	Superior Work Performance Award
1998	Special Act Award	2004	Special Act Awards (3 awards)
1998	Superior Work Performance Award	2004	Superior Work Performance Award
1999-2005	National Society of Collegiate Scholars Nominated for Membership	2005	Special Act Awards (3 awards)
		2005	Superior Work Performance Award

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Other Experience and Professional Memberships

NIOSH/MSHA Educational Issues Team

This Team was developed at the request of the Director, DRDS, and the Chief, Health Division, MSHA and was made up of representatives from NIOSH and MSHA to identify, discuss, and work on identifying messages, targeting audience, developing systems, and evaluating effectiveness of NIOSH and MSHA educational publications and programs relating to coal workers' pneumoconiosis.

NIOSH/University High School Partners in Education Committee

The statewide Partner's in Education Program was originally established to provide opportunities for public schools in WV to interact with local businesses by establishing mutually beneficial partnerships. These partnerships are a way for various segments of the community to come together in an environment of mutual trust and respect to work cooperatively for improved education of public school students.

Peer Reviewed Publications

Antao V.C., Petsonk E.L., Sokolow L.Z., Wolfe, A.L., Pinheiro G.A., Hale J.M., Attfield M.D.: Rapidly progressive coal workers' pneumoconiosis in the United States: Geographic clustering and other factors. *Occup Environ Med*, 52:670-674, 2005.

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BIOGRAPHICAL SKETCH

3 - 30 - 2006

John M. Wood, M.S.	Statistician (Health) Tel: (304) 285 6159 E-mail: jwood@cdc.gov		
EDUCATION/TRAINING :			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Massachusetts, Amherst, MA	B.S.	1975-1979	Wildlife Management
University of Florida, Gainesville, FL	M.S.	1979-1982	Forest Resources and Conservation

Positions

1979-1982	Graduate Research Assistant, University of Florida, Gainesville, FL
1982-1983	Research Assistant, University of Florida, Gainesville, FL
1984-1985	Biological Scientist II, Florida Game & Fresh Water Fish Commission, Tallahassee, FL
1985-1992	Sr. Biological Scientist, Department of Wildlife and Range Sciences, University of Florida, Gainesville, FL
1992	Computer Consultant, Mylan Pharmaceuticals, Morgantown, WV
1993	Research Assistant, Florida Cooperative Fish & Wildlife Research Unit, University of Florida, Gainesville, FL
1993-1994	Research Assistant II, West Virginia University, Division of Forestry, Morgantown, WV
1994	Meadow River Ecology Project Leader, The Nature Conservancy of West Virginia, Charleston, WV
1995-1997	Ecological Consultant, West Virginia Department of Natural Resources, Elkins, WV
1995-1997	Computer Programmer/Consultant, HGO Technology Inc., Morgantown, WV
1998-2000	Consultant Park Service, New River Gorge National River, Glen Jean, WV
1999-2003	Information Specialist, GS-301-11, Department of Health and Human Services, National Institute for Occupational Safety & Health, Division of Respiratory Disease Studies, Morgantown, WV
2003-Date	Statistician (Health), GS-1530-12, Division of Respiratory Disease Studies Department of Health and Human Services, National Institute for Occupational Safety & Health, Center for Disease Control and Prevention (CDC), Morgantown, WV

Peer Reviewed Publications

1. Jajosky R.A.R., R. Harrison, F. Reinisch, J. Flattery, J. Chan, C. Tumpowsky, L. Davis, M.J. Reilly, K.D. Rosenman, D. Kalinowski, M. Stanbury, D.P. Schill, J. Wood.: Surveillance of work-related asthma in selected U.S. states using surveillance guidelines for state health departments - California, Massachusetts, Michigan, and New Jersey, 1993-1995. MMWR, 48 SS-3:1-20, 1999.
2. Bang K.M., Weissman D.N., Wood J.M. Respiratory tuberculosis mortality by occupation and industry in the United States. Am J Epidemiol, 157 11: S100, 2003.
3. Attfield M.D., Wood J.M., Antao V.C., Pinheiro G.A. Changing patterns of pneumoconiosis mortality – United States, 1968-2000. MMWR, 53:627-632, 2004.
4. Bang K.M., Pinheiro G.A., Wood J.M. Mortality trends in malignant neoplasm of the pleura in the United States, 1979-1998. Am J Epidemiol; 159 11:S78, 2004.
5. Bang K.M., Weissman D.N., Wood J.M., Attfield M.D. Tuberculosis mortality by industry in the United States, 1990-1999. Int J Tuberc Lung Dis, 9 4:437-442, 2005.
6. Bang K.M., Pinheiro G.A., Wood J.M., Syamlal, G. Malignant mesothelioma mortality in the United States, 1999-2001. Int J Occup Environ Health, 12:9-15, 2006.

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BIOGRAPHICAL SKETCH

Ralph D. Zumwalde, M.S.	Senior Scientist Tel:513-533-8320 E-Mail: RZumwalde@cdc.gov		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	B.S.	1975	Biology/Physical Sciences
University of Cincinnati, Med. College, Cincinnati, OH	M.S.	1981	Industrial Hygiene

Positions

1966-1970	Scientist, U.S. Public Health Service, Cincinnati, OH
1970-1981	Industrial Hygienist, National Institute for Occupational Safety and Health, CDC, Cincinnati, OH
1981-1985	Chief, Document Development Section, Division of Standards Development and Technology Transfer National Institute for Occupational Safety and Health, CDC, Cincinnati, OH
1985-1996	Assistant Chief and Chief, Document Development Branch, National Institute for Occupational Safety and Health, CDC, Cincinnati, OH
1996-present	Senior Scientist, Document Development Branch, Education and Information Division, National Institute for Occupational Safety and Health, CDC, Cincinnati, OH

Other Experience and Professional Memberships

American Conference of Governmental Industrial Hygienist (ACGIH) Past Vice-Chairman of the Mining Safety and Health Committee
Federal Interagency Asbestos Task Force Committee
U.S. Environmental Protection Agency Advisory Committee on Fiber testing

Publications

1. NIOSH [2006] Criteria for a Recommended Standard...Occupational Exposure to Refractory Ceramic Fibers
2. NIOSH [2002] Hazard Review: Health Effects of Occupational Exposure to Respirable Crystalline Silica
3. NIOSH [2002] Hazard Review: Health Effects of Occupational Exposure to Asphalt
4. Reed L, Stayner L, Ahlers H, and Zumwalde R. The role of qualitative and quantitative risk assessment in the development of occupational standards. Chemical Risk Assessment and Occupational Health. Ed. Smith MC, Christiani DC and Kelsey KT. Auburn House, Westport, Connecticut, pg. 17-24, 1994.
5. IPCS Environmental Health Criteria 151. Selected Synthetic Organic Fibres. WHO, Geneva. Chapter 4, Environmental Levels and Human Exposure, 1993