

# **Biographical Sketches**

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**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Toni Alterman, Ph.D.</b>		Senior Research Epidemiologist, Surveillance Branch, DSHEFS <a href="mailto:talterman@cdc.gov">talterman@cdc.gov</a>	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Massachusetts, Amherst, MA	B.S.	1977	Psychology
University of Arizona, Tucson, AZ	M.A.	1982	Psychology
University of Arizona, Tucson, AZ	Ph.D.	1985	Psychology
University of Texas Health Science Center School of Public Health, Houston, TX	M.S.	1990	Epidemiology

**Research And Professional Experience:**

1979-1985	Research Consultant: Southern Arizona Mental Health Center, Divisions of Research and Evaluation, Consultation and Education, Tucson, AZ
1985	Research Specialist: Texas Research Institute of the Mental Sciences, Office of Comparative Services Research and Prevention, Houston, TX (6 mos.)
1986-1988	Faculty Associate: University of Texas Health Science Center School of Public Health, Epidemiology Research Unit, Houston, TX
1988-1992	Assistant Professor, Behavioral Science: University of Texas Health Science Center School of Public Health, Southwest Center for Occupational & Environmental Health, Houston, TX
1992-1998	Senior Research Epidemiologist: National Institute For Occupational Safety and Health, Division of Surveillance, Hazard Evaluation and Field Studies, Surveillance Branch, Illness Effects Section, Cincinnati, OH
1998- 2004	Team Leader, (Section Chief, Supervisory Epidemiologist): National Institute for Occupational Safety and Health, Surveillance Branch, Division of Surveillance Hazard Evaluation and Field Studies, Cincinnati, OH.
2004-present	Senior Research Epidemiologist: National Institute for Occupational Safety and Health, Surveillance Branch, Division of Surveillance Hazard Evaluation and Field Studies.

**Honors and Awards**

University of Massachusetts, cum laude (1977)  
University of Arizona Graduate Academic Scholarship (1984)  
Public Health Service Special Act or Service Award - CDC/NIOSH (1994, 1998, 2006)  
Epidemiology Section Councilor American Public Health Association (1999-2000, 2003-2004)  
Honorable Mention Alice Hamilton Award –CDC/NIOSH (2000)  
Epidemiology Governing Councilor American Public Health Association (2001-2002)

**Relevant Publications/Presentations**

1. Alterman T, Steege A, Chen X, Muntaner C, Li J. Health Surveillance of Hired Farmworker Women from the National Agricultural Workers' Survey. American Journal of Epidemiology Supplement 2006; 163 (11): S151. [Abstract]
2. Salg J, Alterman T. 2005. Proportionate Mortality Ratio Study of Bricklayers and Allied Craftworkers. American Journal of Industrial Medicine 47:10-19.
3. Dunning K, LeMasters G, Levin L, Bhattacharya A, Alterman T, Lordo K. 2003. Falls in workers during pregnancy: risk factors, job hazards, and high risk occupations. American Journal of Industrial Medicine 44: 664-672.
4. Chen GX, Johnston JJ, Alterman T, Burnett K, Stern F, Steenland, K, Halperin, WE. 2000. Expanded Analysis of Injury Mortality among Unionized Construction Workers. American Journal of Industrial Medicine, 37:364-373.
5. Grosch J, Alterman T, Petersen M, Murphy L. 1998. Worksite Health Promotion Programs: Availability, Participation, and Health Outcomes in a National Survey of U.S. Workers. American Journal of Health Promotion 13:36-45.
6. Alterman T, Burnett C, Peipins L, Lalich N. 1997. Occupation and cervical cancer mortality: An opportunity for prevention. Journal of Women's Health 6:649-657.

7. Alterman T, Shekelle R, Vernon V, Burau K. 1994 Decision latitude, psychologic demand, job strain and coronary heart disease in the Western Electric Study. *American Journal of Epidemiology* 139: 620-627.
8. Fontham E, Correa P, Wu-Williams A, Reynolds P, Greenberg R, Buffler P, Chen V, Boyd P, Alterman T, Austin D, Liff J, Greenberg SD. 1991. Lung cancer in nonsmoking women: A multicenter case-control study. *Cancer Epidemiology, Biomarkers and Prevention* 1: 35-43.
9. Alterman T, Steege A, Li J, Muntaner C, Petersen MR. Ethnic, racial and gender variations in health among farm operators in the United States. Paper being prepared for submission to *Annals of Epidemiology*.
10. Alterman T, A. Steege, X. Chen, C. Muntaner, J. Li Health surveillance of hired farmworker women from the National Agricultural Workers' Survey. Poster presented at North American Congress of Epidemiology, June 2006, Seattle, WA.
11. Alterman T, Steege AL, Li J, Petersen M. Mental Health Symptoms in a Population Based Survey of Minority Farm Operators. Poster presentation at American Public Health Association Annual Meeting. San Francisco, CA, November 2003.
12. Steege AL, Alterman T, Li J, Petersen M. Occupational Hearing Loss in a Population Based Survey of Minority Farm Operators. Poster presentation at American Public Health Association Annual Meeting. San Francisco, CA, November 2003.
13. Steege A, Alterman T, Li J. Report on a population-based minority and female farm operator occupational health survey. American Public Health Association Annual Meeting, Philadelphia, PA, November 2002.
14. Steege, A, Alterman T, Sestito, J, Baron S, Estill C, Lalach N, Cameron L. Occupational Health Surveillance of Hired Farm workers. *Agricultural Safety and Health in a New Century*, Cooperstown, NY April 2000.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Ronnee N. Andrews</b>		Chemist Tel: (513) 841-4149      E-mail: Randrews@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Xavier University, Cincinnati OH	BS	5/2000	Chemistry, Minor: Environmental Studies
University of Cincinnati, Chemistry Department, Cincinnati OH	Enrolled in Ph. D program	Expected completion by 2008	Analytical Chemistry

Positions

5/2000 – Present Chemist, , Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Chemical Exposure and Monitoring Branch, Cincinnati, OH.

1999 – 2000 Physical Science Technician, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Chemical Exposure and Monitoring Branch, Cincinnati, OH.

Other experience and professional memberships

- Laboratory Data System Coordinator: 2002 – 2004
- Sample Tracking Clerk: 2002 - 2004

Peer-reviewed publications (most recent listed)

1. Ashley, K., Andrews, R.N., Cavazos, M. *Ultrasonic Extraction As a Sample Preparation Technique for Elemental Analysis by Atomic Spectrometry*, J. Anal. At. Spectrom. 2001, 16, 1147-1153
2. Fernandez, D.R.; Vanderjagt, D.J.; Williams, M.; Huang, Y-S.; Chuang, L-T; Millson, M.; Andrews, R.N.; Pastuszyn, Al; Glew, R.H. *Fatty Acid, Amino Acid and Trace Mineral Analysis of Five Weaning Foods from Jos, Nigeria*, Plant Foods Hum. Nutr. 2002, 57, 257-274
3. Andrews, R.N.; Jaycox, L.B. Method 9202: *Captan and Thiophanate-methyl in Handrinse*. In: NIOSH Manual of Analytical Methods (NMAM), 4<sup>th</sup> ed. 3<sup>rd</sup> supplement, Schlecht, P.C., O'Connor P.F., Eds.; DHHS (NIOSH) Publication No. 2003-154; National Institute for Occupational Safety and Health , DHHS (NIOSH): Cincinnati, OH, 2004.
4. Andrews, R.N.; Millson, M.; Dollberg, D.D. Method 9102: *Methals on Wipes*. In: NIOSH Manual of Analytical Methods (NMAM) 4<sup>th</sup> ed. 3<sup>rd</sup> supplement, Schlecht, P.C., O'Connor P.F., Eds.; DHHS (NIOSH) Publications No. 2003-154; National Institute For Occupational Safety and Health, DHHS (NIOSH): Cincinnati, OH, 2004.
5. Jaycox, L. B.; Andrews, R. N. Method 5606: *Thiophanate-methyl in Air*. In: NIOSH Manual of Analytical Methods (NMAM), 4<sup>th</sup> ed, 3<sup>rd</sup> supplement, Schlecht, P. C., O'Connor P. F., Eds.; DHHS (NIOSH) Publication No. 2003-154; National Institute for Occupational Safety and Health, DHHS (NIOSH): Cincinnati, OH, 2004.
6. Jaycox, L. B.; Andrews, R. N. Method 9205: *Captan and Thiophanate-methyl on Dermal Patch*. In: NIOSH Manual of Analytical Methods (NMAM), 4<sup>th</sup> ed, 3<sup>rd</sup> supplement, Schlecht, P. C., O'Connor P. F., Eds.; DHHS (NIOSH) Publication No. 2003-154; National Institute for Occupational Safety and Health, DHHS (NIOSH): Cincinnati, OH, 2004.

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Paul A. Baron, Ph.D.</b> (contractor)		Scientist Tel: (513) 841-4278; E-mail: pbaron@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Illinois, Urbana-Champaign	B.Sc.	1961-1965	Chemistry
University of California, Santa Barbara, CA	Ph.D.	1966-1970	Physical Chemistry

Positions

1970-1973	Post-doctoral Research Fellow, Monash University, Melbourne, Australia
1973-1974	Post-doctoral Research Fellow, University of Kansas, Lawrence, KS
1974-2004	Physical Scientist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
2004-present	Contractor, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

Other experience and professional memberships

- Commissioned Officers Association of the United States Public Health Service
- American Association for Aerosol Research Member, Director, Instrumentation Committee Member and Chair, Tutorial Organizer, Nomination Committee Member.
- Aerosol Science and Technology Associate Editor
- American Conference of Governmental Industrial Hygienists
- American Industrial Hygiene Association Member, Aerosol Committee Member, Chair, and Session Organizer

Peer-reviewed publications (most recent listed)

1. Zeidler-Erdely P, Calhoun WJ, Ameredes BT, Clark MP, Deye GJ, Baron P, Jones W, Blake T, Castranova V. 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, Hopke PK, Baron PA, Ahamdi G, Cheng YS, Su WC. 2005. Fiber Classification and the influence of average air humidity. Aerosol Sci Technol 39(11): 1056-63.
3. Shvedova AA, Kisin ER, Mercer RR, Murray AR, Johnson VJ, Potapovich AI, Tyurina YY, Gorelik O, Arapalli S, Schwegler-Berry D, Hubbs AF, Antonini JM, Evans DE, Ku BK, Ramsey D, Kagan VE, Castanova 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
4. Maynard AD, Baron PA, Foley M, Shvedova AA, Kisin ER, and Castranova V. 2004. Exposure to carbon nanotube material: Aerosol release during the handling of unrefined single walled carbon nanotube material. J Tox Environ Health 67(1):87-107
5. Shvedova AA, Kisin ER, Murray AR, Gandelsman VZ, Maynard AD, and Baron PA, and Castranova V. 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.



**BIOGRAPHICAL SKETCH**

6-15-2006

<b>David L. Bartley, Ph.D.</b> (retired from NIOSH, now serves as a consultant)		Physicist Tel: (513) 841-4277 ; E-mail: <a href="mailto:dlb4@cdc.gov">dlb4@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Michigan, Ann Arbor, MI	Ph.D.	1973	Physics

Positions

- 1986-2003: Research Physicist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health
- 1985-1986: Visiting Scientist, Naval Research Laboratory, Washington, D.C.
- 1977-1985: Research Physicist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health
- 1975-1977: Research Assistant Professor, University of Missouri
- 1974-1975: Post-Doctoral Research Associate, Brown University

Other experience and professional memberships

- Commissioned Officer Association of the Public Health Service [PHS 45591]
- The American Association for Aerosol Research, 1989-present
- U.S. Public Health Service Commissioned Officers Association, 1977- 2003
- American Physical Society, 1973-1974

Peer-reviewed publications (most recent listed)

1. Bartley DL. Analytical performance criteria. Reconciling traditional accuracy assessment with the ISO guide to the expression of uncertainty in measurement (ISO/GUM). [Journal Article] *Journal of Occupational & Environmental Hygiene*. 1(4):D37-41, 2004
2. Bartley, D.L.: "Measurement Uncertainty and NIOSH Method Accuracy Range", Chapter P, NIOSH Manual of Analytical Methods (in press, 2003).
3. Smith, J. and Bartley, D.L.: "Effect of Sampler and Manikin Conductivity on the Sampling Efficiency of Manikin-Mounted Personal Samplers", *Aerosol Science and Technology* 37:79-81 (2003).
4. Bartley, D.L., and K.C. Irwin: "Accuracy in Measurement using Diffusive Samplers", Proceedings of the International Conference on Diffusive Sampling, Montpellier, France (2002).
5. Bartley, D.L.: "Definition and Assessment of Sampling and Analytical Accuracy", *Annals of Occupational Hygiene* 45(5)(2001). [cited twice]
6. Bartley, D.L., Martinez, A., Baron, P., Secker, R.S., and Hirst, E.: "Liquid Aerosol Distortion in Accelerating Flow", *Journal of Aerosol Science* 31(12):1447-1460 (2000).
7. Bartley DL, Martinez AB, Baron PA, et al., [Droplet distortion in accelerating flow](#), J AEROSOL SCI 31 (12): 1447-1460 DEC 2000 [cited 4 times]

**BIOGRAPHICAL SKETCH**

6-20-2006

<b>Jennifer L. Bell, Ph.D.</b>		Research Epidemiologist Tel: (304) 285-5802; E-mail: JBell@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown, WV	Ph.D.	1994-1997	Wildlife Biology
West Virginia University, Morgantown, WV	M.S.	1992-1994	Wildlife and Fisheries Resources
Ursinus College, Collegeville, PA	B.S.	1989-1992	Biology

Positions

1998-present Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV

Other experience, honors, and professional memberships

Forest Resources Association Technical Writing Award, 2006, for "Mechanized felling reduces West Virginia WCI claims"

2006 National Occupational Research Agenda (NORA) Partnering Award for Worker Safety and Health for "Slips, trips, and falls prevention in healthcare workers", group award.

2005 Alice B. Hamilton Science Award - Human Studies Category, for Collins, J., Wolf, L., Bell, J., Evanoff, B.

2004. An evaluation of a best practices musculoskeletal injury prevention program in nursing homes. *Injury Prevention* 10:206-211.

2003 National Occupational Research Agenda (NORA) Partnering Award for Worker Safety and Health for "An Evaluation of a "Best Practices" Musculoskeletal Injury Prevention Program in Nursing Homes" by Collins, J., Wolf, L., Bell, J., Evanoff, B

2000 Alice Hamilton Science Award - Honorable Mention, Human Studies Category, for Hendricks et al. 1999

Peer-reviewed publications (most recent listed)

1. Mujuru, P., Singla, L., Helmkamp, J., Bell, J.L., and Hu, W. 2006, *in press*. Evaluation of the burden of logging injuries using West Virginia workers' compensation claims data from 1996-2001. *American Journal of Industrial Medicine*.
2. Bell, JL, and Grushecky, ST. 2006. Evaluating the effectiveness of a logger safety training program. *Journal of Safety Research*. 37:53-61.
3. Bell, JL. 2005. Mechanized felling reduces West Virginia WCI claims. *Forest Operations Review*. 7(3):26-27.
4. Helmkamp JC, Bell JL, Lundstrom WJ, Ramprasad J, Haque A. 2004. Assessing safety awareness and knowledge and behavioral change among West Virginia loggers. *Injury Prevention* 10:233-238.
5. Collins JW, Wolf L, Bell J, Evanoff B. 2004. An Evaluation of a "Best Practices" Back Injury Prevention Program in Nursing Homes. *Injury Prevention* 10:206-211.
6. Bell, JL, Helmkamp JC. 2003. Non-fatal injuries in the West Virginia logging industry: Using workers' compensation claims to assess risk from 1995 through 2001. *American Journal of Industrial Medicine* 44(5):502-509.
7. Wang J, Bell JL, Grushecky ST. 2003. Logging injuries for a 10-year period in Jilin Province, People's Republic of China. *Journal of Safety Research* 34(3):273-279.
8. Bell, JL, MacDonald, LA. 2003. Hand Lacerations and Job Design Characteristics in Line-Paced Assembly. *Occupational and Environmental Medicine* 45(8):848-856.
9. Bell, JL. 2002. Changes in logging injury rates associated with use of feller-bunchers in West Virginia. *Journal of Safety Research* 33(4): 463-471.
10. Bell JL, Gardner LI, Landsittel DP. 2000. Slip and fall injuries in relation to environmental cold and work location in above-ground coal mining operations *American Journal of Industrial Medicine* 38:40-48.
11. Hassi J, Gardner LI, Hendricks SA, Bell JL. 2000. Occupational injuries in the mining industry and their association with statewide cold ambient temperatures in the USA. *American Journal of Industrial Medicine* 38:49-48.
12. Hendricks SA, Landsittel DP, Amandus HE, Malcan J, Bell JL. 1999. A matched case-control study of convenience store robbery risk factors. *Journal of Occupational and Environmental Medicine* 41: 995-1004.

**BIOGRAPHICAL SKETCH**

06-08-2006

<b>Raymond E. Biagini, Ph.D.</b>		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	BS	1971	Biology
University of Nevada, Reno, NV	MS	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.
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, Schlottman, 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 Arija, 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.
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.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Elyce Biddle, Ph.D.</b>		Economist Tel: (304) 285-6015; E-mail: EBiddle@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of New Mexico, Albuquerque, NM	B.A.	1985	Economics
University of New Mexico, Albuquerque, NM		1983-1985	Masters of Business Administration
West Virginia University Morgantown, WV	M.S.	2001	Agricultural and Resource Economics
West Virginia University Morgantown, WV	Ph.D.	2004	Occupational Safety and Health

Positions

- 2006-present Senior Economist, Division of Safety Research, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services, Morgantown, WV.
- 2001-2006 Chief of Methods and Analysis Team, Division of Safety Research National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, U.S. Dept. of Health and Human Services, Morgantown, WV.
- 1996-2001 Economist, Division of Safety Research, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, U.S. Department of Health and Human Services, Morgantown, WV.
- 1995-1996 Senior Labor Economist, Division of Occupational Pay and Employee Benefit Levels, Office of Compensation Levels and Trends, Bureau of Labor Statistics, U.S. Department of Labor, Washington, DC.
- 1985-1995 Senior Economist, Division of Safety, Health, Program Analysis and Control, Office of Safety, Health and Working Conditions, Bureau of Labor Statistics, U.S. Department of Labor, Washington, DC.

Other experience and professional memberships

- 2005-present Visiting Assistant Professor of Health Economics (Part-Time), West Virginia University, Morgantown, West Virginia
- 2004 Visiting Instructor of Research and Statistics (Part-Time), West Virginia University, Morgantown, West Virginia
- 2004-present Economic Evaluation of Occupational Safety and Health Interventions at the Company Level, Institute Lead
- 2004 Economic Evaluation of Occupational Safety and Health Interventions at the Company Level Symposium, Organizing Committee/Chair Planning Committee
- 2000-2004 NIOSH Economic Interest Group, Chair
- 2000-2002 Morgantown Partnership Council
- 2000-2002 Centers for Disease Control and Prevention, Executive Partnership Council
- 2000, 2002, 2004, 2006 Measuring the Burden of Injuries (Organized with the World Conference on Injury Prevention and Safety Promotion), Program Committee
- 1999; 2001 Eastern Economic Association Annual Meeting, Program Committee
- 1998-2000 CDC/ATSDR Quality of Work Life Committee, Chair
- 1997-2002 Social and Economic Consequences of Workplace Illness and Injury, NIOSH NORA Team Co-Leader
- 1997-1999 Visiting Instructor of Economics (Part-Time), Fairmont State College, Fairmont, West Virginia

Peer-reviewed publications (most recent listed)

1. Biddle, E. Feasibility of Collecting Workers' Compensation Administrative Records, IAIABC Journal in press, 2006.
2. Biddle, E. 2006 Is the Occupational Fatal Injury Experience in the United States Really Improving?, Fatal Workplace Injuries: A Collection of Data and Analysis, in press, 2006

3. Owusu-Edusei K, Biddle, E. A Stable Dynamic Cohort Analysis of Installing Cost-Effective Roll-Over Protective Structures (CROPS), *Journal of Agricultural Safety and Health* in press, 2006
4. Biddle E, Tapas R, Owusu-Edusei K, Camm T. Synthesis and recommendations of the economic evaluation of OHS interventions at the company level conference, *J Safety Res* 36(3):261-267, 2005.
5. Husting, EL and E Biddle. "Trucking Safety in the Age of Information". In *Trucking in the Age of Information*, Burlington, VT: Ashgate Publishing Ltd. P247-268, 2005
6. Biddle, E., T. Ray, K. Owusu-Edusei, Jr. and T.Camm. "Synthesis and Recommendations of the Economic Evaluation of OHS Interventions at the Company Level Conference," *Journal of Safety Research*, Vol 36, Issue 3, p261-267, 2005.
7. Hartley, D., E. Biddle, and E.L. Jenkins. "Societal Cost of Workplace Homicides in the United States, 1992-2001". *American Journal of Industrial Medicine* 47:518-527, 2005.
8. Biddle, EA and D. Hartley. "Economic Costs: Another Alternative for Measuring Workplace Fatalities," *IAIABC Journal*, Vol. 42, No. 1 Spring, 2005.
9. Biddle, E., D. Hartley, S. Starkey, V. Fabrega, and S. Richardson. "Deriving Occupational Fatal Injury Costs: A State Pilot Study," *Compensation and Working Conditions* <http://www.bls.gov/opub/cwc/sh20050216ar01p1.htm>
10. Schulte, PA, AH Okun, CM Stephenson, J Palassis, and E Biddle. "Integrating Occupational Safety and Health Information and Training into Vocational and Technical Education and Other Workforce Preparation Programs," *American Journal of Public Health*, March 2005.
11. Biddle, E. "Economic Cost of Fatal Occupational Injuries in the United States, 1980-1997," *Contemporary Economic Policy*: Vol. 22, No. 3, July 2004, 370-381.
12. Biddle E. "Changes in the economic analysis for social regulation in the U.S.," *5<sup>th</sup> International Measuring the Burden of Injury*, June 3-4, 2004, Baden, Vienna; 8-11, Ottawa, Canada: Transport Canada, 2004 June.
13. Biddle, E. and S Marsh. "Comparison of the National Traumatic Occupational Fatalities and Census of Fatal Occupational Injuries Surveillance System," *Journal of Safety Research*, 33: 337-354, 2002,
14. Hartley, D. and E Biddle. "The Burden of Occupational Fatal Injury for Older Workers in the United States" *Injury Insights*, 1-2, 11 June/July 2002.
15. Biddle, E. and D Hartley. "Fire- and Flame-Related Events with Multiple Occupational Injury Fatalities in the United States, 1980-1995", *Injury Control and Safety Promotion*, 9(1): 9-18, 2002.
16. Hartley, D. and E. Biddle. "Will Risks to Older Workers Change in the 21<sup>st</sup> Century?" *HERA* 7(7):1885-1894, 2001.
17. Biddle, E. "NIOSH Efforts to Identify and Fill Information Gap" *CIDR* Vol 1, Issue 4, February, 2001.
18. Boden, L., E Biddle, and E Spieler. "Social and Economic Impacts of Workplace Illness and Injury: Current and Future Directions for Research," *The American Journal of Industrial Medicine* 40:398-402, 2001.
19. Biddle, E. "Database of Databases" *CIDR* Vol 1, Issue 3, November, 2000.
20. Biddle, E. and D Hartley. "Fire- and Flame-Related Occupational Fatalities in the United States, 1980-1994", *Journal of Occupational and Environmental Medicine*, Vol. 42, No. 4, April 2000.
21. Biddle, E. and L Blanciforti. "Impact of a Changing U.S. Workforce on the Occupational Injury and Illness Experience", *American Journal of Industrial Medicine*, Supplement 1, September, 1999.
22. Biddle, E. and S Kisner. "Denominator Effects on Traumatic Occupational Fatality Incidence Rates", *Statistical Bulletin*, Jan-Mar 1998.
23. Biddle, E. "Development and Application of an Occupational Injury and Illness Classification System", *ILO Encyclopaedia of Occupational Health and Safety, Fourth Edition*, Geneva:ILO, 1997.

**BIOGRAPHICAL SKETCH**

11-15-2006

<b>Eileen M. Birch, Ph.D.</b>		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	BS	1979	Chemistry
	MS	1982	Chemistry
	PhD	1985	Analytical/Physical Chemistry

Positions

2005-present	<i>Research Scientist (Team Leader)</i> —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	<i>Research Scientist</i> —National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Department of Health and Human Services, Cincinnati, OH
1985-1987	<i>Postdoctoral Fellow</i> —with William R. Heineman, Distinguished Research Professor, Department of Chemistry, University of Cincinnati, Cincinnati, OH
	<i>University Instructor</i> —analytical chemistry lecture and lab, University of Cincinnati
1979-1983	<i>Teaching Assistant</i> —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
- 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*

14. **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*, 4<sup>th</sup> Edition. Cincinnati, OH, DHHS(NIOSH) Publication No. 2003-154.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Thomas G. Bobick, Ph.D.</b>		Research Safety Engineer, phone: (304) 285-5986; e-mail: tbobick@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
Penn State University, University Park, PA	B.S.	1970	Mining Engineering
University of Pittsburgh, Pittsburgh, PA	M.S.	1988	Industrial Hygiene
West Virginia University, Morgantown, WV	Ph.D.	1997	Industrial Engineering, specializing in Ergonomics

Positions:

1989-present: Research Safety Engineer, Dept HHS, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV

1970-1972 &

1978-1989: Mining Engineer, Dept of Interior, Bureau of Mines, Pittsburgh Research Center, Pittsburgh, PA

1973-1978: Mining Engineer, Dept of Labor, Mine Safety and Health Administration, Technical Support Center, Pittsburgh, PA

Professional Certifications:

Professional Engineer (P.E.), Pennsylvania, License No. PE-025435E, 1977

Certified Safety Professional (CSP), Certification No. 10901, 1991

Certified Professional Ergonomist (CPE), Certification No. 052, 1993

Memberships:

Member, American Society of Safety Engineers

Member, Pittsburgh Chapter, American Industrial Hygiene Association

Honors:

Alice Hamilton Science Award for Leadership in Occupational Safety and Health, Honorable Mention, for the Outstanding NIOSH Document, "Safe Grain and Silage Handling," DHHS (NIOSH) Publication No. 95-109, 1995

Selected to attend school full-time as part of the NIOSH Long-Term (Advanced) Training Program, 1995-1997

Peer-reviewed publications (most recent listed):

1. Bobick TG, 2004. "Falls through Roof and Floor Openings and Surfaces, Including Skylights: 1992-2000," *Journal of Construction Engineering and Management* (Dec 1 issue), 130(6): 895-907.
2. Bobick TG, 2003. Summary of Doctoral Dissertation (1997): "Effects of Lifting Height and Asymmetry on Maximum Acceptable Weight of Lift, Average Heart Rate, and Estimated Biomechanical Loading to the Lumbar Spine," *Kinesiology Abstracts*, 16(1) (April), p. 13.
3. Proudfoot SL, NT Romano, TG Bobick, PH Moore, 2003. "Ambulance Crash-Related Injuries among Emergency Medical Service Workers-United States, 1991-2002," *The CDC Morbidity and Mortality Weekly Report*, (Feb 28), 52(8): 154-156.
4. Bobick TG, DJ Long, 2002. "Overview of Deaths and Injuries Caused by Falls through Roof and Floor Openings and Surfaces, Including Skylights: 1992-1998," Paper in: *Power Through Partnerships*, Proceedings of the 12<sup>th</sup> Annual Construction Safety & Health Conference, Chicago IL, May 21-23, 2002, pp. 369-374.
5. Bobick TG, J-L Belard, H Hsiao, JT Wassell, 2001. "Physiological Effects of Back Belt Wearing During Asymmetric Lifting," *Applied Ergonomics*, 32(6): 541-547.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Richard W. Braddee, M.S.</b>		Lead Safety and Occupational Health Manager Tel: (304) 285-6017; E-mail: RWB1@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
Penn State University, Uniontown, PA	A.S.	1978-1980	Letters, Arts & Sciences
California University of Pennsylvania, California, PA	A.S.	1982-1984	Computer Science Tech.
West Virginia University, Morgantown, WV	B.S.	1984-1988	Liberal Arts
West Virginia University, Morgantown, WV	M.S.	1997-1999	Safety Management

Positions

- 1998-present    Lead Safety and Occupational Health Manager, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
- 1985-1998      Safety Specialist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV

Peer-reviewed publications (most recent listed)

1. Braddee, RW., Pratt, S., Hause, M [1997]. "Preventing Falls from Elevations. American Welding Journal. pp. 23-25. Spring 1997.
2. Braddee, RW., Myers, J R [1997]. Logging-Type Fatalities in the U.S. Production Agriculture Industry, 1980-1992. Journal of Agromedicine, Volume 4, Numbers 3/4 1997. Pp. 373-375.
3. Hodous TK, Pizatella TJ, Braddee RW, Castillo DN [2004]. Fire Fighters 1998-2001: overview with an emphasis on structure related traumatic fatalities, Inj Prev 10(4):222-226.

**BIOGRAPHICAL SKETCH** 6-18-2006

<b>G. Edward Burroughs, PhD, CIH, CSP</b>		Research Industrial Hygienist Tel: (513) 841-4275; E-mail: Eburroughs@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Cincinnati Cincinnati, OH	B.S.	1969	Chemistry
University of Cincinnati Cincinnati, OH	M.S.	1974	Industrial Hygiene
University of Cincinnati Cincinnati, O	PhD	1998	Environmental Health

Positions

2005 To Present	Environmental Consultant, Federal Occupational Health, U. S. Public Health Service, Lebanon, OH 45036
1995 To Present	Adjunct Assistant Professor, Department of Environmental Health, College of Medicine, University of Cincinnati, Cincinnati, OH
1996 To 2005	Research Industrial Hygienist, Engineering Control Technology Branch, National Institute for Occupational Safety and Health, Centers for Disease Control, Cincinnati, Ohio
1982 To 1996	Research Industrial Hygienist, Monitoring Research Branch, National Institute for Occupational Safety and Health, CDC, Cincinnati, Ohio

CERTIFICATION

- Certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene, Certificate No. 1340, May, 1978, most recently renewed in 2003.
- Certified Safety Professional (Comprehensive Practice) by the Board of Certified Safety Professionals, serial no. 18135, May 5, 2004.

Other experience and professional memberships

- American Conference of Governmental Industrial Hygienists, member 1975-present
- American Industrial Hygiene Association, member 1974-present
- Academy of Kettering Fellows, member 1974-present
- American Academy of Industrial Hygienists, member 1978-present
- Ohio Valley Local Section of the American Industrial Hygiene Association, member 1977-present
- Symposium Development Committee, Ohio Valley Local Section, AIHA, member 1993-present.
- Curator of NIOSH/ACGIH Historical Equipment Exhibit, 1983-1995
- Member of Thesis Advisory Committees for Graduate Research, University of Cincinnati, Department of Environmental Health, 1985-Present
- Secretary/Treasurer, Academy of Kettering Fellows, 1983-87
- Member, Gas and Vapor Monitoring Committee, American Industrial Hygiene Association, 1983-88
- Technical Advisor to the State of Ohio, Industrial Commission, Division of Safety and Hygiene, 1984-88
- Member, Professional History Committee, American Conference of Governmental Industrial Hygienists, 1986-89
- Lecturer, NIOSH Division of Training, 1987 - 1995
- Member, Commissioned Officers Association (COA), 1991 - present
- Member of International Board of Advisors to the State of New York, 1978-81
- Symposium Development Committee, Ohio Valley Local Section, AIHA, chair 1995-1999.
- Board of Directors, Ohio Valley Local Section AIHA, 2001 – 2004
- Treasurer, Ohio Valley Local Section AIHA, 2006 – Present

Peer-reviewed publications (most recent listed)

Yacher, J. M., Heitbrink, W. A., Burroughs, G. E., "Mist Control at Machining Centers, Part 2 - Mist Control Following Installation of Air Cleaners," AIHAJ 61:282(2000)

Boundy, M.A., Leith, D., Hands, D., Gressel, M., and Burroughs, G. E., "Performance of Industrial Mist Collectors

Over Time,” Appl. Occup. Environ. Hyg. 15(12):928-935, 2000

Reutman SR, Lemasters GK, Kesner J, Lockey J, Shukla R, Knecht E, Krieg E, Burroughs E. “Evidence of Reproductive Endocrine Effects in Women with Occupational Fuel and Solvent Exposures”. Environ Health Perspect 110:805(2002)

Ryan, T. J., Burroughs, G. E., Taylor, K., Kovein, R. J., “Video Exposure Assessments Demonstrate Excessive Laboratory Formaldehyde Exposures,” Appl. Occup. Environ. Hyg., 18(6)450-457, June, 2003

Sweet, N. D., Burroughs, G. E., Ewers, L., and Talaska, G. "A Field Method for Near Real Time Analysis of Perchloroethylene in End Exhaled Breath", J. Occ. Env. Health, 1:515, Aug 2004

Hawks, C., Makos, K, Bell, D., Wambach, P. F., and Burroughs, G. E., “An Inexpensive Method to Test for Mercury Vapor in Herbarium Cabinets” Taxon, Aug 2004, 53(3)783

Boyer, L., Seifert, S., Odegaard, N., Pool, M., and Burroughs, G. E., “Understanding the Hazards: Toxicity and Safety,” in Old Poisons, New Problems, A Museum Resource for Managing Contaminated Cultural Materials, N. Odegaard and A. Sadongei, Ed., Altamira Press, Walnut Creek, CA, 2005

Burroughs, G. E., Makos, K, Hawks, C., and Ryan, T. J., “Exposure of Museum Staff to Formaldehyde During Some Wet Specimen Activities,” Collection Forum 2006; 20(1-2):49-54

Burroughs, G. E. Martinez, A., Kurimo, R., Helms, C. T., Bochner, B., and Shulman, S., “Control of dust in textile dyeing operations,” J. Occ. Env. Health, accepted for publication

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Mary Ann Butler, Ph.D.</b>		Research Toxicologist Tel: (513) 533-8403; E-mail: MButler@cdc.gov	
EDUCATION/TRAINING:			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Texas at Austin	B.A.	1962	Biology
University of Texas at Austin	M.A.	1965	Physiology
University of Arkansas for Medical Sciences, Little Rock, AR	Ph.D.	1989	Toxicology

Positions

1992-present	Research Toxicologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
1989-1992	Staff Fellow, National Center for Toxicological Research, Jefferson, AR; and Co-Principal Investigator, John L. McClellan Memorial Veterans Hospital, Little Rock, AR
1982-1983	Research Geneticist, Southern Weed Science Laboratory, U.S.D.A., Stoneville, MS
1975-1979	Research Associate, University of Texas Graduate School of Biomedical Sciences, Houston, TX
1966-1972	Research Associate, University of Texas Graduate School of Biomedical Sciences, Houston, TX

Other experience and professional memberships

- American Association for Cancer Research
- Sigma Xi

Peer-reviewed publications (most recent listed)

Ruder AM, Waters MA, Carreon T, Butler MA, Davis-King KE, Calvert GM, Schulte PA, Ward EM, Connally LB, Lu J, Wall D, Zivkovich Z, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD; Brain Cancer Collaborative Study Group. 2006. The Upper Midwest Health Study: A case-control study of glioma in rural residents. *J Ag Safe Health* 12, 255-274.

Toraason M, Lynch DW, DeBord DG, Singh N, Krieg E, Butler MA, Toennis CA, Nemhauser JB. 2006. DNA damage in leukocytes of workers occupationally exposed to 1-bromopropane. *Mutat Res* 603, 1-14.

Carreón T., Butler MA, Ruder A M, Waters MA, Davis-King KE, Calvert GM, Schulte PA, Connally LB, Sanderson W, Ward E M, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD, Talaska G; Brain Cancer Collaborative Study Group . 2005. Gliomas and farm pesticide exposure in women: the Upper Midwest Health Study. *Environ Health Perspect* 113, 546-551.

B'Hymer C, Butler MA, Cheever KL. 2005. Comparison and evaluation of analysis procedures for the quantification of (2-methoxyethoxy)acetic acid in urine. *Anal Bioanal Chem* 383, 201-209.

Ruder AM, Waters MA, Butler MA, Carreon T, Calvert GM, Davis-King KE, Schulte PA, Sanderson WT, Ward EM, Connally LB, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenmen KD, Talaska G; Brain Cancer Collaborative Study Group. 2004. Gliomas and farm pesticide exposure in men: the Upper Midwest Health Study. *Arch Environ Health* 59, 650-657.

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; The Brain Cancer Collaborative Study Group. 2004. Reproductive factors and risk of glioma in women. *Cancer Epidemiol Biomarkers Prev* 13, 1583-1588.

Toraason M, Butler MA, Ruder A, Forrester C, Taylor L, Ashley DL, Mathias P, Marlow KL, Cheever KL, Krieg E., Wey H. 2003. Effect of perchloroethylene, smoking, and race on oxidative DNA damage in female dry cleaners. *Mutat Res* 539, 9-18.

**BIOGRAPHICAL SKETCH**

10-17-2006

<b>Geoffrey M. Calvert</b>		Acting Team Leader, State-Based Surveillance Team	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Ohio University, Athens, OH	BS	1979	Zoology
Wright State University, Dayton, OH	MD	1983	Medicine
University of Illinois at Chicago	MPH	1985	Occupational and Environmental Health
Cook County Hospital, Chicago, IL		1983-1987	Residency in internal and occupational medicine
Centers for Disease Control and Prevention/Epidemic Intelligence Service (EIS)		1987-1989	Applied epidemiology

Positions and Honors

August 2004 – present: Acting Team Leader, State-Based Surveillance Team, Surveillance Branch, DSHEFS, NIOSH, CDC, Cincinnati, Ohio

July 1987 - April 1997: Medical Epidemiologist, Industrywide Studies Branch, DSHEFS, NIOSH, CDC, Cincinnati, Ohio

May 1997 – July 2004: Senior Medical Epidemiologist, Surveillance Branch, DSHEFS, NIOSH, CDC, Cincinnati, Ohio

September 1997 – Present: Volunteer Associate Professor of Environmental Health

May 1997 – Present: Department of Environmental Health, University of Cincinnati College of Medicine, Cincinnati, Ohio, Associate Clinical Professor  
Department of Community Health, Wright State University School of Medicine, Dayton, Ohio

Selected peer-reviewed publications or manuscripts

1. Brevard TA, Calvert GM, Blondell JM, Mehler LN. Acute occupational disinfectant-related illness among youth, 1993-1998. *Environ Health Perspect* 2003; 111:1654-1659.
2. Calvert GM. Health effects from pesticide exposure (editorial). *Am Fam Physician* 2004; 69: 1613-1614, 1616.
3. 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, Brain Cancer Collaborative study Group. Reproductive factors and risk of glioma in women. *Cancer Epidemiol Biomarkers Prev*; 2004;13:1583-1588.
4. Carreón T, Butler MA, Ruder AM, Waters MA, Davis-King KE, Calvert GM, Schulte PA, Connally LB, Ward EM, Sanderson WT, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD, Talaska G, Brain Cancer Collaborative Study Group. Gliomas and farm pesticide exposure in women: The Upper Midwest Health Study. *Environ Health Perspect* 2005; 113: 546-551.
5. Alarcon WA, Calvert GM, Blondell JM, Mehler LN, Sievert J, Propeck M, Tibbetts DS, Becker A, Lackovic M, Soileau SB, Das R, Beckman J, Male DP, Thomsen CL, Stanbury M. Acute illnesses associated with pesticide exposures at schools. *JAMA* 2005; 294: 455-465.

**BIOGRAPHICAL SKETCH**

6-20-2006

<b>Virgil J. Casini</b>		Safety and Occupational Health Manager Tel: (304) 285-6020; E-mail: VCasinir@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Saint Vincent College	B.S.	1971-1974	Biology

Positions

1985-present Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV

Other experience and professional memberships

OSHA Telecommunication Tower Task Force

Advisory Committee for Construction Safety and Health (ACCSH) Telecommunication Tower Subcommittee

Peer-reviewed publications (most recent listed)

1. Myers JR, Hard DL, Snyder KA, Casini VJ, Cianfrocco R, Fields J, Morton L. [1999]. Risks of fatal injuries to farm workers 55-years of age and older. *Amer. Jour. Occ. Med. Supp.*, 1:29-30.
2. Hard DL, Myers JR, Snyder KA, Casini VJ, Cianfrocco R, Fields J, Morton L. [1999]. Young workers at risk when working in agricultural production. *Amer. Jour. Occ. Med. Supp.*, 1:31-33.
3. Hard DL, Myers JR, Snyder KA, Casini VJ, Cianfrocco R, Fields J, Morton L. [1999]. Identifying work-related fatalities in the agricultural production sector using two national occupational fatality surveillance systems, 1990-1995. *Jour. Ag. Safety and Hlth.*, 5(2):155-169.
4. Myers JR, Hard DL, Snyder KA, Casini VC, Cianfrocco R, Fields J, Morton L. [1998]. Statistics and epidemiology of tractor fatalities—a historical perspective. *Jour. Ag. Safety and Hlth.*, 4(2):95-108.



**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Dawn Castillo, M.P.H.</b>		Supervisory Epidemiologist Tel: (304) 285-6012; E-mail: DCastillo@cdc.gov	
EDUCATION/TRAINING:			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of California, Irvine	B.S.	1981-1985	Biology
University of California, Los Angeles	M.P.H.	1985-1986	Epidemiology

Positions

1998-present	Chief, Surveillance and Field Investigations Branch, Division of Safety Research, National Institute for Occupational Safety and Health, Morgantown, WV
1997-1998	Acting Chief, Injury Surveillance Section, Surveillance and Field Investigations Branch, National Institute for Occupational Safety and Health, Morgantown, WV
1992-1997	Research Epidemiologist, Injury Surveillance Section, Surveillance and Field Investigations Branch, National Institute for Occupational Safety and Health, Morgantown, WV
1990-1991	Epidemiologist, University of California, Irvine
1988-1990	Research Associate, University of California, Irvine
1987-1988	Research Associate, University of California, Los Angeles

Other experience and professional memberships

2002-present	Adjunct Assistant Professor in Community Medicine, West Virginia University School of Medicine
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Peer-reviewed publications (most recent listed)

- Hodous TK, Pizatella T, Braddee R, Castillo DN [2004]. Fire fighter fatalities 1998-2001: Overview with an emphasis on structure related traumatic fatalities. *Inj Prev* 2004, Vol. 10, pages 222-226.
- Castillo DN, Adekoya N, Myers JR [1999]. Fatal work-related injuries in the agricultural production and services sectors among youth in the United States, 1992-1996. *J Agromedicine* 1999; Vol. 6, pages 27-41.
- Castillo DN, Davis L, Wegman DH [1999]. Young workers. *Occ Med: State of the Art Reviews* 14(3):519-536.
- Castillo DN, Hard D, Myers J, Pizatella T, Stout N [1998]. A national childhood agricultural injury prevention initiative. *J Ag Safety Health* 1998, Special Issue, Vol. 1, pages 183-191.
- Castillo DN, Malit BD [1997]. Occupational injury deaths of 16- and 17-year-olds in the United States: trends and comparisons to older workers. *Inj Prev* 1997, Vol. 3, pages 277-281.
- Castillo DN, Rodriguez RL [1997]. Follow-back study of oldest workers with emergency department treated injuries. *Am J Ind Med* 1997, Vol. 31, pages 609-618.
- Knight EB, Castillo DN, Layne LA [1995]. A detailed analysis of work-related injury among youth treated in emergency departments. *Am J Ind Med* 1995, Vol. 27, pages 793-805.
- Layne LA, Castillo DN, Stout N, Cutlip P [1994]. Adolescent occupational injuries requiring hospital emergency department treatment: a nationally representative sample. *Am J Public Health* 1994, Vol. 84, pages 657-660.
- Castillo DN, Landen DL, Layne LA [1994]. Occupational injury deaths of 16- and 17-year-olds in the United States. *Am J Public Health* 1994, Vol. 84, pages 646-649.
- Castillo DN, Jenkins EL [1994]. Industries and occupations at high risk for work-related homicide. *J Occ Med* 1994, Vol. 36, pages 125-132.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Vincent Castranova, Ph.D.</b>		Chief, Pathology and Physiology Research Branch, National Institute for Occupational Safety and Health – <a href="mailto:VICI@cdc.gov">VICI@cdc.gov</a> – 304-285-6032	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Mount Saint Mary's College (Emmitsburgh, MD)	B.S.	1966-70	Biology
West Virginia University School of Medicine (Morgantown, WV)	Ph.D.	1970-74	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 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. Deciciency 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.

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>David W. Chrislip</b>		Research Psychologist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Case Western Reserve University Cleveland, OH	B.A.	1970-1974	Psychology
Indiana University Bloomington, IN		1974-1975	Experimental Psychology

Positions

1977 - present    Research Psychologist, NIOSH, Cincinnati, Ohio

Relevant Professional Activities:

- Collaborated with international partners to create the NIOSH *Work, Stress, and Health '99* and *Occupational Health Psychology* webpages
- Created ergonomic analysis software (including the *Strain Index Calculator* and the *NIOSH Lifting Equation Calculator*), which are used both within and outside of NIOSH
- Member of development team for *Kayles' Difficult Decisions* CD-ROM
- Responsible for planning and execution of computerized neurobehavioral testing in 6 major NIOSH field studies, personally testing more than 2000 subjects
- Led NIOSH team charged with development and quality control of neurobehavioral testing component in the third National Health and Nutrition Examination Survey (NHANES III), which tested a national sample of 5000 people
- Member of the panel which proposed the Agency for Toxic Substances and Disease Registry's (ATSDR) human neurobehavioral test battery, now used as a standard test battery within ATSDR
- Participated in international, cross-cultural study of the WHO Neurobehavioral Core test battery, which collected and compared test results from nine countries on three continents
- Served as a consultant in neurobehavioral testing to Columbia in a study of petroleum refinery workers. Selected tests, acquired and programmed computers, and trained Spanish-speaking nationals in the administration of the test battery
- Served as expert witness for CDC and state governments in neurobehavioral evaluation of workers exposed to *Pfiesteria piscicida*

Awards:

- 1999 Alice Hamilton Science Award - Human Studies Category
- 1995 Alice Hamilton Science Award - Honorable Mention

Selected Publications:

Anger, W.K., Letz, R., Chrislip, D.W., Frumkin, H., Hudnell, K., Russo, J.M., Chappell, W., and Hutchinson, L. Test Battery Development, *Environmental Epidemiology and Toxicology*, Volume 1, Issue 1, pp. 14-22, 1999.

Britt, Marcia; Chrislip, David; Bayer, Steve; Cole, Hank; Kidd, Pam; Parshall, Mark; Isaacs, Steven; Struttman, Tim; Colligan, Michael; Scharf, Ted    A Farm Work Planning Simulation in Multi-Media: A Comparative Evaluation. *American Journal of Industrial Medicine* Supplement 1:113-115, 1999.

Calvert GM, Mueller CA, Fajen JM, Chrislip D, Russo J, Briggles T, Fleming LE, Suruda AJ, Steenland K. Health effects associated with sulfur dioxide and methyl bromide exposure among structural fumigation workers. *American Journal of Public Health* 88:1774-1780, 1998.

Krieg, E.F., Chrislip, D.W., and Russo, J.M. A Mathematical Model of Performance on a Simple Reaction Time Test. *Neurobehavioral Toxicology and Teratology*, Vol. 18, No. 5, pp. 587-593, 1996.

- Ames, R.G., Steenland, K., Jenkins, B., Chrislip, D.W., and Russo, J.R. Chronic Neurologic Sequelae to Cholinesterase Inhibition among Agricultural Pesticide Applicators. *Archives of Environmental Health* 50(6):440-44, 1995.
- Anger, W.K., Letz, R., Chrislip, D.W., Frumkin, H., Hudnell, K., Russo, J.M., Chappell, W., and Hutchinson, L. Neurobehavioral Test Methods for Environmental Health Studies of Adults. *Neurobehavioral Toxicology and Teratology*, Vol. 16, No. 5, pp. 489-497, 1994.
- Steenland, K., Jenkins, B., Ames, R.G., O'Malley, M., Chrislip, D.W., and Russo, J.R. Chronic Neurologic Sequelae to Acute Organophosphate Pesticide Poisoning. *American Journal of Public Health* 84(5):731-36, 1994.
- Anger, W.K., Cassitto, M.G., Liang, Y., Amador, R., Hooisma, J., Chrislip, D.W., Mergler, D., Keifer, M., Hortnagl, J. and Fournier, L. Comparison of Performance from Three Continents on the WHO-Recommended Neurobehavioral Core Test Battery (NCTB). *Environmental Research* 62:125-147, 1993.
- Putz-Anderson, V., Albright, B.E., Lee, S.T., Johnson, B.L., Chrislip, D.W., Taylor, B.J., Brightwell, W.S., Dickerson, N., Culver, M., Zentmeyer, D. and Smith, P. A Behavioral Examination of Workers Exposed to Carbon Disulfide. *Neurotoxicology*, 4(1):67-77, 1983.
- Anger, W.K., Letz, R., Chrislip, D.W., Frumkin, H., Hudnell, K., Russo, J.M., Chappell, W., and Hutchinson, L. Test Battery Development, *Environmental Epidemiology and Toxicology*, Volume 1, Issue 1, pp. 14-22, 1999.
- Britt, Marcia; Chrislip, David; Bayer, Steve; Cole, Hank; Kidd, Pam; Parshall, Mark; Isaacs, Steven; Struttman, Tim; Colligan, Michael; Scharf, Ted A Farm Work Planning Simulation in Multi-Media: A Comparative Evaluation. *American Journal of Industrial Medicine* Supplement 1:113-115, 1999.
- Calvert GM, Mueller CA, Fajen JM, Chrislip D, Russo J, Briggle T, Fleming LE, Suruda AJ, Steenland K. Health effects associated with sulfuryl fluoride and methyl bromide exposure among structural fumigation workers. *American Journal of Public Health* 88:1774-1780, 1998.
- Krieg, E.F., Chrislip, D.W., and Russo, J.M. A Mathematical Model of Performance on a Simple Reaction Time Test. *Neurobehavioral Toxicology and Teratology*, Vol. 18, No. 5, pp. 587-593, 1996.
- Ames, R.G., Steenland, K., Jenkins, B., Chrislip, D.W., and Russo, J.R. Chronic Neurologic Sequelae to Cholinesterase Inhibition among Agricultural Pesticide Applicators. *Archives of Environmental Health* 50(6):440-44, 1995.
- Anger, W.K., Letz, R., Chrislip, D.W., Frumkin, H., Hudnell, K., Russo, J.M., Chappell, W., and Hutchinson, L. Neurobehavioral Test Methods for Environmental Health Studies of Adults. *Neurobehavioral Toxicology and Teratology*, Vol. 16, No. 5, pp. 489-497, 1994.
- Steenland, K., Jenkins, B., Ames, R.G., O'Malley, M., Chrislip, D.W., and Russo, J.R. Chronic Neurologic Sequelae to Acute Organophosphate Pesticide Poisoning. *American Journal of Public Health* 84(5):731-36, 1994.
- Anger, W.K., Cassitto, M.G., Liang, Y., Amador, R., Hooisma, J., Chrislip, D.W., Mergler, D., Keifer, M., Hortnagl, J. and Fournier, L. Comparison of Performance from Three Continents on the WHO-Recommended Neurobehavioral Core Test Battery (NCTB). *Environmental Research* 62:125-147, 1993.
- Putz-Anderson, V., Albright, B.E., Lee, S.T., Johnson, B.L., Chrislip, D.W., Taylor, B.J., Brightwell, W.S., Dickerson, N., Culver, M., Zentmeyer, D. and Smith, P. A Behavioral Examination of Workers Exposed to Carbon Disulfide. *Neurotoxicology*, 4(1):67-77, 1983.

**BIOGRAPHICAL SKETCH**

10-17-2006

<b>L. Barbara Connally, M.S.</b>		Public Health Analyst Tel: (513) 841-4328; E-mail: LConnally@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	B.S.	1969	Education
University of Cincinnati, Cincinnati, OH	M.S.	1981	Human Services Administration

Positions

- 1985-present Public Health Analyst, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1983-1985 Client Services Coordinator, Industrial Health, Inc., Fairfield, OH
- 1981-1983 Trainer/Facilitator, J.O.Y. Vocational Rehabilitation Center, Cincinnati, OH

Peer-reviewed publications

- Ruder, AM, M A Waters, T Carreón, M A Butler, K E Davis-King, G M Calvert, P A Schulte, L B Connally, E M Ward, J Lu, D Wall, Z Zivkovich, E F Heineman, J S Mandel, R F Morton, D J Reding, K D Rosenman, Brain Cancer Collaborative Study Group , 2006, The Upper Midwest Health Study, a case-control study of primary intracranial gliomas in farm and rural residents: J Agric Saf Health, v. 12, p. 255-274.
- Carreón, T, M A Butler, A M Ruder, M A Waters, K E Davis-King, G M Calvert, P A Schulte, L B Connally, W Sanderson, E M Ward, E F Heineman, J S Mandel, R F Morton, D J Reding, K D Rosenman, G Talaska, Brain Cancer Collaborative Study Group , 2005, Gliomas and farm pesticide exposure in women: The Upper Midwest Health Study: Environ Health Perspect, v. 113, p. 546-551.
- Ruder, AM, M A Waters, M A Butler, T Carreón, G M Calvert, K E Davis-King, P A Schulte, W T Sanderson, E M Ward, L B Connally, E F Heineman, J S Mandel, R F Morton, D J Reding, K D Rosenman, G Talaska, 2004, Gliomas and farm pesticide exposure in men: the Upper Midwest Health Study: Arch Environ Health, v. 59, p. 650-7.
- Lawson, CC, T M Schnorr, E A Whelan, J A Deddens, D A Dankovic, L A Piacitelli, M H Sweeney, L B Connally, 2004, Paternal occupational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin and birth outcomes of offspring: birth weight, preterm delivery, and birth defects: Environ Health Perspect, v. 112, p. 1403-8.
- Needleman, C, L B Connally, 2003, Long-term impact of worker notification: qualitative assessment of a community-based notification and screening program in Augusta, Georgia: Am J Ind Med, v. 44, p. 113-23.
- Yong, LC, P A Schulte, J K Wiencke, M F Boeniger, L B Connally, J T Walker, E A Whelan, E M Ward, 2001, 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, v. 10, p. 539-50.
- Schnorr, TM, C C Lawson, E A Whelan, D A Dankovic, J A Deddens, L A Piacitelli, J Reefhuis, M H Sweeney, L B Connally, M A Fingerhut, 2001, Spontaneous abortion, sex ratio, and paternal occupational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin: Environ Health Perspect, v. 109, p. 1127-32.
- Schulte, PA, L M Goldenhar, L B Connally, 1996, Intervention research: science, skills, and strategies: Am J Ind Med, v. 29, p. 285-8.
- Hooks, C, C Ugarte, J Silsby, R Brown, J Weinman, G Fernandez, J Foxwell, N Newton, L B Connally, 1996, Obstacles and opportunities in designing cancer control communication research for farmworkers on the Delmarva Peninsula: J Rural Health, v. 12, p. 332-42.
- Connally, LB, P A Schulte, R J Alderfer, L M Goldenhar, G M Calvert, K E Davis-King, W T Sanderson, 1996, Developing the National Institute for Occupational Safety and Health's cancer control demonstration projects for farm populations: J Rural Health, v. 12, p. 258-64.
- Connally, LB, P A Schulte, 1996, Cancer control in rural farm populations: J Rural Health, v. 12, p. 255-7.
- Tepper, A, L B Connally, P Haltmeier, E Smith, M H Sweeney, 1993, Knowledge of medical history information among proxy respondents for deceased study subjects: J Clin Epidemiol, v. 46, p. 1243-8.
- Sweeney, MH, M A Fingerhut, J C Arezzo, R W Hornung, L B Connally, 1993, Peripheral neuropathy after occupational exposure to 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD): Am J Ind Med, v. 23, p. 845-58.
- Schulte, PA, W L Boal, J M Friedland, J T Walker, L B Connally, L F Mazzuckelli, L J Fine, 1993, Methodologic issues in risk communications to workers: Am J Ind Med, v. 23, p. 3-9.

15. Piacitelli, LA, M H Sweeney, D G Patterson, W E Turner, L B Connally, K K Wille, B Tompkins, 1992, Serum levels of 2,3,7,8-substituted PCDDs and PCDFs among workers exposed to 2,3,7,8-TCDD contaminated chemicals: *Chemosphere*, v. 25, p. 251-4.
16. Sweeney, MH, M A Fingerhut, Patterson D.G. =Jr., L B Connally, L A Piacitelli, J A Morris, A L Greife, R W Hornung, D A Marlow, J E Dugle, W E Halperin, L L Needham, 1990, Comparison of serum levels of 2,3,7,8-TCDD in TCP production workers and in an unexposed comparison group.: *Chemosphere*, v. 20, p. 993-1000.
17. Sweeney, MH, M A Fingerhut, L B Connally, W E Halperin, P L Moody, D A Marlow, 1989, Progress of the NIOSH cross-sectional medical study of workers occupational exposed to chemicals contaminated with 2,3,7,8-TCDD. *Chemosphere*, v. 19, p. 973-7.
18. Fingerhut, MA, M H Sweeney, D G Patterson Jr, L A Piacitelli, J A Morris, D A Marlow, R W Hornung, L W Cameron, L B Connally, L L Needham, W E Halperin, 1989, Levels of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the serum of U.S. chemical workers exposed to dioxin contaminated products: interim results.: *Chemosphere*, v. 19, p. 835-40.

**BIOGRAPHICAL SKETCH**

10-17-2006

<b>Brian Curwin, PhD.</b>		Research Industrial Hygienist Tel: (513) 841-4432; E-mail: bcurwin@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Concordia University, Montreal, Quebec	BS	1986-1991	Exercise Science
McGill University, Montreal, Quebec	MS	1992-1994	Occupational Health
Utrecht University, Utrecht Netherlands	PhD	2004-2006	Exposure Assessment

Positions

2000-present Research Industrial Hygienist, National Institute for Occupational Safety and Health, Cincinnati, OH  
 1995-2000 Evaluation Officer, Pest Management Regulatory Agency, Health Canada, Ottawa, Ontario, Canada

Awards and professional memberships

- Member of the International Society of Exposure Analysis since 1997.
- Received the U.S. Civil Service Special Act Award (2002) and the U.S. Department of Health and Human Services Secretary's Award for Distinguished Service (2002).
- Received the Treasury Board of Canada Award of Excellence (1999) and the Health Canada Departmental Award of Merit (1998).
- Nominated for the Centers for Disease Control and Prevention Charles C. Sheppard Award for Outstanding Peer Reviewed Research Papers.

Peer-reviewed publications

1. **B. Curwin**, M. Hein, W. Sanderson, C. Striley, D. Heederik, S. Reynolds, E. Ward, M. Alavanja, H Kromhout. (submitted) Pesticide dose estimates for children of Iowa farmers. *Environmental Health Perspectives*
2. **B. Curwin**, M. Hein, W. Sanderson, C. Striley, D. Heederik, S. Reynolds, E. Ward, M. Alavanja, H. Kromhout. (2006) Urinary pesticide concentrations among children, mothers, and fathers living in farm and non-farm households in Iowa. *Annals of Occupational Hygiene* doi:10.1093/annhyg/mel062 [online September 19, 2006]
3. K.W. Hanley, M. Petersen, **B. Curwin**, and W.T. Sanderson. (2006) Urinary bromide and breathing zone concentrations of 1-bromo-propane from workers exposed to flexible foam spray adhesives. *Annals of Occupational Hygiene* 60(6):599-607. doi:10.1093/annhyg/me1020 [online May 12, 2006]
4. D. Barr, D. Landsittel, M. Nishioka, K. Thomas, **B. Curwin**, J. Raymer, K.C. Donnelly, L. McCauley, M. Lasarev, P.B. Ryan. (2006) A survey of laboratory and statistical issues related to farmworker studies. *Environmental Health Perspectives* 114(6):961-968 doi:10.1289/ehp.8528. [Online 16 February 2006]
5. D. Barr, K. Thomas, **B. Curwin**, D. Landsittel, J. Raymer, C. Lu, K.C. Donnelly, J. Acquavella, (2006). Biomonitoring of exposure in farmworker studies. *Environmental Health Perspectives* 114(6):936-942 doi:10.1289/ehp.8527. [Online 16 February 2006]
6. **B. Curwin**, M. Hein, W. Sanderson, M. Nishioka, S. Reynolds, E. Ward, M. Alavanja. (2005) Pesticide contamination inside farm and non-farm homes. *Journal of Occupational and Environmental Hygiene* 2(7):357-367
7. **B. Curwin**, A. Brown, J. Acquavella. (2005) International symposium on agricultural exposures and cancer: Sessions on exposure assessment. *Scandinavian Journal of Work, Environment and Health* 31(suppl 1):63-65
8. **B. Curwin**, M. Hein, W. Sanderson, D. Barr, D. Heederik, S. Reynolds, E. Ward, M. Alavanja. (2005) Urinary and hand wipe pesticide levels among farmers and non- farmers in Iowa. *Journal of Exposure Analysis and Environmental Epidemiology* 15(6):500-508 doi:10.1038/sj.jea.7500428
9. **B. Curwin**, M. Hein, W. Sanderson, M. Nishioka, W. Buhler (2005). Nicotine exposure and decontamination on tobacco harvesters' hands. *Ann Occ Hyg* 49(5):407-413 doi:10.1093/annhyg/meh112
10. **B. Curwin**, M. Hein, W. Sanderson, M. Nishioka, W. Buhler (2003). Acephate exposure and decontamination on tobacco harvesters' hands. *Journal of Exposure Analysis and Environmental Epidemiology* 13(3):203-210
11. **B. Curwin**, W. Sanderson, S. Reynolds, M. Hein, M. Alavanja (2002). Pesticide Use and Practices in an Iowa Farm Family Pesticide Exposure Study. *Journal of Agricultural Safety and Health* 8(4):423-433
12. W. Sanderson, M. Hein, L. Taylor, **B. Curwin**, G. Kinnes, T. Seitz, M. Kellum, H. Holmes, S. McAllister, D. Whaley, T. Popovic, E. Tupin, T. Walker, J. Noack, D. Small, B. Klusaritz, J. Bridges (2002). Comparison of Surface Sampling Methods for Bacillus Anthracis Spore Contamination. *Emerging Infectious Diseases Journal* 8(10):1145-1151



**BIOGRAPHICAL SKETCH**

10-19-2006

<b>Karen Davis-King, M.P.H.</b>	Epidemiologist (former)		
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
Yale University, New Haven, CT	M.P.H.		Epidemiology and public health

Positions

1990-1996 Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

Peer-reviewed publications

1. Carreón T, Butler MA, Ruder AM, Waters MA, Davis-King KE, Calvert GM et al. 2005. Gliomas and farm pesticide exposure in women: The Upper Midwest Health Study. *Environ Health Perspect* 113: 546-551.
2. Connally LB, Schulte PA, Alderfer RJ, Goldenhar LM, Calvert GM, Davis-King KE et al. 1996. Developing the National Institute for Occupational Safety and Health's cancer control demonstration projects for farm populations. *J Rural Health* 12: 258-64.
3. Davis-King KE, Sweeney MH, Wille KK, Steenland K, Arezzo JC. 1992. Reference values for amplitudes and conduction velocities obtained from a cohort of middle-aged and retired workers. *Scand J Work Environ Health* 18 Suppl 2: 24-6.
4. Huang K, Whelan EA, Ruder AM, Ward EM, Deddens JA, Davis-King KE et al. 2004. Reproductive factors and risk of glioma in women. *Cancer Epidemiol Biomarkers Prev* 13: 1583-1588.
5. Prince MM, Ruder AM, Hein MJ, Waters MA, Whelan EA, Nilsen N et al. 2006. Mortality and exposure response among 14,458 electrical capacitor manufacturing workers exposed to polychlorinated biphenyls (PCBs). *Environ Health Perspect* 114: 1508-1514.
6. Ruder AM, Hein MJ, Nilsen N, Waters MA, Laber P, Davis-King K et al. 2006. Mortality among workers exposed to polychlorinated biphenyls (PCBs) in an electrical capacitor manufacturing plant in Indiana: an update. *Environ Health Perspect* 114: 18-23.
7. Ruder AM, Ward EM, Dong M, Okun AH, Davis-King K. 2004. Mortality patterns among workers exposed to styrene in the reinforced plastic boatbuilding industry: an update. *Am J Ind Med* 45: 165-76.
8. Ruder AM, Waters MA, Butler MA, Carreón T, Calvert GM, Davis-King KE et al. 2004. Gliomas and farm pesticide exposure in men: the Upper Midwest Health Study. *Arch Environ Health* 59: 650-7.
9. Ruder AM, Waters MA, Carreón T, Butler MA, Davis-King KE, Calvert GM et al. 2003. The Upper Midwest Health Study: a case-control study of primary intracranial gliomas in farm and rural residents. *J Agric Saf Health* 12: 255-274.
10. Sanderson WT, Talaska G, Zaebst D, Davis-King K, Calvert G. 1997. Pesticide prioritization for a brain cancer case-control study. *Environ Res* 74: 133-44.
11. Ward EM, Burnett CA, Ruder A, Davis-King K. 1997. Industries and cancer. *Cancer Causes Control* 8: 356-70.

Reports and Protocols

1. Davis-King K. 1991. Availability of workers potentially occupationally exposed to PCBs, to perform serum PCB analysis. Cincinnati, OH: DHHS.
2. Davis-King KE, Calvert GM, Heineman E, Ihry T, Ruder AM, Sanderson WT, Schulte PA, Talaska G, Wall D, Ward EM. 1994. Study Protocol: A case-control study of primary intracranial brain gliomas among rural residents: the Upper Midwest Health Study. Cincinnati, OH: DHHS.
3. Davis-King KE, Waters M, Roberts D, Ward E, Sinks T, Steele G. 1993. Study Protocol: A study of cancer incidence and mortality among workers exposed to polychlorinated biphenyls (PCBs) in an electrical capacity manufacturing plant in Bloomington, Indiana. Cincinnati, OH: DHHSW.
4. Fingerhut MA, Steenland K, Ballard T, Davis-King K, Waters M, Ruder A. 1993. Breast cancer incidence in occupational cohorts exposed to ethylene oxide and polychlorinated biphenyls: research proposal. 1-29.
5. Sinks T, Davis-King K. 1990. Polychlorinated biphenyls and the risk of malignant melanoma.
6. Whelan EA, Steenland K, Davis-King KE, Waters MA, Schnorr TM, Ward EM. 1995. Women's occupational health study: breast cancer

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Donald D. Dollberg, Ph.D.</b> (retired from NIOSH in 2005)		Research Chemist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Massachusetts, MA	Ph.D.	1973	Inorganic Chemistry
Canisius College,	M.S.	1970	Chemist,
Seton Hall University,	B.S.	1966	Chemistry

Positions

- 1987 – 2005 Section Chief of the Measurements Support Section Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, DPSE became the Division of Applied Research and Technology, Cincinnati, OH
- 1984 - 1987 Laboratory Coordinator for Analytical Chemistry Services Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Science and Engineering (DPSE), Cincinnati, OH
- 1981 – 1987 Project Officer, Comprehensive Analytical Chemistry Support Contract Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Science and Engineering, Cincinnati, OH
- 1981 – 2005 Project Director, Laboratory Information Management System, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Science and Engineering, Cincinnati, OH
- 1975- 1982 Analytical Inorganic Chemist, Department of Health, Education and Welfare, National Institute for Occupational Safety and Health, Division of Physical Science and Engineering, Measurements Research Support Branch.
- 1973 – 1975 Post-Doctoral Research Fellow, Hoke S. Green Laboratory of Catalysis, Department of Chemistry, University of Cincinnati; Cincinnati, Ohio.

Other experience and professional memberships

- Commissioned Officers Association of the Public Health Service (officer #42614); President of Cincinnati Local Chapter, 1981.
- American Chemical Society.
- American Conference of Government Industrial Hygienists.
- Sigma Xi, The Scientific Research Society of North America.

Peer-reviewed publications (most recent listed)

1. Neumeister, C. E. (C. E. Neumeister, L. D. Olsen and D. D. Dollberg) -- *Development of a Flow Injection Fluorescence Method for Estimation of Total Polycyclic Aromatic Hydrocarbons in Asphalt Fumes* – 2003
2. Tucker, S. P. (S. P. Tucker, M. B. B. Millson and D. D. Dollberg) -- *Determination of Polyacrylate Super Absorbent Polymers in Air* – 1993
3. Dollberg, D. D. (D. D. Dollberg, M. L. Bolyard and D. L. Smith) -- *Evaluation of Physical Health Effect Due to Volcanic Hazards: Crystalline Silica in Mount St. Helens Volcanic Ash* – 1986
4. McCawley, M. A. (M. A. McCawley, J. Burkhart, P. A. Baron and D. D. Dollberg) -- *Testing of a Personal Filter Cassette with a Circumferential Orifice* - 1983
5. Abell, M. T. (M. T. Abell, D. D. Dollberg, B. A. Lange, R. W. Hornung and J. C. Haartz) -- *Electron Microscopy and X-Ray Applications to Environmental and Occupational Health Analysis* – 1981

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>G. Scott Earnest, Ph.D., P.E.</b>		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.

**BIOGRAPHICAL SKETCH** 6-15-2006

<b>Janet J. Ehlers</b>		Occupational Health Nurse Tel: (513) 841-4205; E-mail: jehlers@cdc.gov	
EDUCATION/TRAINING: Masters in Community Health Nursing; Focus: Occupational Health			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Bethesda Hospital School of Nursing Cincinnati, OH	Diploma	1964-1967	Nursing
College of Mount St. Joseph, Cincinnati, OH	B.S.N	1982-1986	Nursing
University of Cincinnati Cincinnati, OH	M.S.N	1989-1992	Community Health Nursing, focus Occupational Health Nursing

Positions (most recent)

1991-present Occupational Health Nurse, 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

1991 OSHA Nurse Intern, Occupational Safety and Health Administration, Washington, D.C.

1986-1991 Occupational Health Nurse, Good Samaritan Hospital, Cincinnati, OH

Other experience and professional memberships

National Institute for Farm Safety (Rural Occupational Health Committee Chair 2004-2005)  
Annual East Coast Migrant Stream Forum, planning committees (2003-2006)  
Advisory Board, Nurse's Agricultural Education Project; University of Kentucky College of Nursing  
Advisory Board for development, implementation and evaluation of distance learning program for evaluation of community-based intervention programs; Great Lakes Consortium for Agricultural Safety and Health Training  
Farm Safety 4-Just Kids  
4-H Advisor for 20 years  
Graduate Practicums, primarily related to agricultural health and safety, Area Health Education Coalition, Brown and Adams County, OH (1990-1991)  
Advisory Board and Adjunct Faculty, University of Cincinnati College of Nursing, occupational health nursing  
American Association of Occupational Health Nurses  
Sigma Theta Tau, Beta Iota Chapter, national nursing honorary

Peer-reviewed publications (most recent)

1. **Ehlers, J.** and Palermo, T., (2005). Community Partners for Healthy Farming Intervention Research. *J of Agricultural Safety and Health*; 11(2): 193-203.
2. Chapman, L., Newenhouse, A., Meyer, R., Taveira, A. Karsh, B., **Ehlers, J.**, and Palermo, T. (2004). Evaluation of an intervention to reduce musculoskeletal hazards among fresh market vegetable growers. *Applied Ergonomics*. 35(1):57-66.
3. Palermo T, and **Ehlers J.** (2002) Coalitions: partnerships to promote agricultural health and safety. *J of Agricultural Safety and Health*. 8(2):161-174.
4. Brandt, V., Moon, S., **Ehlers, J.**, Methner, N., Struttman, T. (2001). Exposure to endosulfan in farmers: Two case studies. *Am J Ind Med*; 39(6):643-9.
5. **Ehlers J.**, and Palermo T. (1999) Community partners for healthy farming: Involving communities in intervention planning, implementation, and evaluation. *American Journal for Industrial Medicine*. (Suppl. 1):107-109.
6. Zlochower I., and **Ehlers J.** (1999). The danger of drilling into sealed and filled plow frames. *American Journal for Industrial Medicine*. (Suppl. 1):110-112.
7. Ballard, T., Freund, E., **Ehlers, J.**, Brandt, B., Boyland, B., and Halparin, J. (1995). Green tobacco sickness: Occupational nicotine poisoning in tobacco workers. *Archives of Environmental Health*. 15(51):384-389.
8. **Ehlers, JK.**, Connon, C., Themann, C., Myers, J., & Ballard, T.: (1993). Health and safety hazards in farming. Solicited by the *Journal of the American Association of Occupational Health Nurses*. Issue dedicated to agricultural occupational health and safety and has continuing education credits applicable. 41:414-421.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Peter M. Eller, Ph.D.</b> (retired from NIOSH in 199?)		Chemical Engineer	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati OH	Ph. D.	1972	Analytical/Physical Chemistry
University of Cincinnati, Cincinnati OH	M.S.	1968	Physical Chemistry
Johns Hopkins University, Baltimore, MD	B. E. S.	1958	Chemistry

Positions

- 1974 – 1991 Quality Assurance Officer (Editor of the NIOSH Manual of Analytical Methods, Section Chief, Research Chemist ), Department of Health and Human Services (became HHS), Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering, Cincinnati, OH
- 1972 – 1974 Lecturer in Chemistry, University of Cincinnati, Cincinnati OH  
Research Associate, Environmental Hygiene & Analytical Chemistry Division (1973-74)
- 1971 – 1973 Research Associate, University of Cincinnati, Department of Environmental Health - and Post-Doctoral Research Assistant, Trace Metals Group.
- 1969 – 1970 Graduate Teaching Assistant, University of Cincinnati, Evening College and Department of Chemistry, Cincinnati OH
- 1961 – 1969 The PROCTER & GAMBLE COMPANY, Cincinnati (Winton Hill Technical Center) and Baltimore (Detergent Plant) - Chemist, Toilet Goods Product Development and Assistant Plant Chemical Engineer and Production Line Foreman.
- 1958 – 1961 Division Officer and Instructor in Chemistry, Nuclear Physics, and Metallurgy, U.S. Navy, Nuclear Power School, Submarine Base, New London, CT

Other experience and professional memberships

- Convenor, ISO TC 146/ SC2/WG3 (Gases in Workplace Atmospheres, 1984-91)
- American Board of Industrial Hygiene, Certificate #1145 (Chemical Aspects, 1977)
- ACGIH member since 1975.

Peer-reviewed publications (most recent listed)

1. Eller, P. M. and M. E. Cassinelli, Eds.: NIOSH Manual of Analytical Methods, 4th edition. USDHHS Publ. (NIOSH) 94-113 (August 15, 1994).
2. Eller, P. M.: Analytical Methods, Chapter 3 in Patty's Industrial Hygiene and Toxicology, 3rd ed., Part A, R. L. Harris, L. J. Cralley, and L. V. Cralley, Eds., John Wiley & Sons, Inc. (1994).
3. Millson, M., P. M. Eller, and K. Ashley: Evaluation of Wipe Sampling Materials for Lead in Surface Dust. Amer. Ind. Hyg. Assoc. J. 55: 339-342 (1994).
4. Lunsford, R. A., Y. Gagnon, J. Palassis, J. Fajen, D. Roberts, and P. M. Eller: Determination of 1,3-butadiene down to sub-part-per-million levels in air by collection on charcoal and high-resolution gas chromatography. Appl. Occup. Environ. Hyg. 5: 310-320 (1990).
5. Perkins, J. B., D. G. Tharr, J. Palassis, D. B. Fannin, and P. M. Eller: Reduction of Blank Values in the Determination of Particulate Cyanides (Case Study). Appl. Occup. Environ. Hyg. 5: 836-837 (1990).
6. Eller, P. M.: Determination of Nickel Carbonyl by Charcoal Tube Collection and Furnace Atomic Absorption Spectrophotometry. Appl. Ind. Hyg. 1: 115-118 (1986).

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Yvonne T. Gagnon, M.P.H.</b>		Research Chemist Tel: (513) 841-4260 ; E-mail: ytg2@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Ursuline College, Pepper Pike, Ohio	B.A.	1975	Chemistry
University of North Carolina, Chapel Hill, NC	M. P. H.	2002	Health Behavior/Health Education

Positions

- 1976 – 1998      Chemist    Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1998-2006      Research Chemist    Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

Other experience and professional memberships

- Division Safety officer 1998 – 1999
- American Chemical Society, since 1975
- Iota Sigma Pi, Honor Society of Women Chemists

Peer-reviewed publications (most recent listed)

1. Health Hazard Evaluation of Methyl Bromide Soil Fumigations, Appl. Occup. Environ. Hyg. S. W. Lenhart, Y. T. Gagnon, 14:7:407-412. July 1, 1999.
2. Lenhart SW, Gagnon YT [Nov. 1998]. NIOSH Health Hazard Evaluation Report for U.S. Dept. of Agriculture Animal and Plant Health Inspection Service, Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, NIOSH report No. HETA 93-0012-2711.
3. Gagnon YT, Ringenburg VL, Fajen JM [March 1995]. "Research into Problems with NIOSH Method 2520 for Methyl Bromide," Department of Health and Human Services, Public Health Service, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering, National Technical Information Service Report No. PB 95-179842.
4. Gagnon YT, Ringenburg VR, Fajen JM [March 1994]. Case Studies Column, "Problems with NIOSH Method 2520 for Methyl Bromide," Appl Occup Environ Hyg, 9(3), 165-167.
5. Kennedy ER, Gagnon YT [1994]. "Formaldehyde on Dust (Textile or Wood)," National Institute for Occupational Safety and Health (NIOSH) Manual of Analytical Methods, 4th ed., P.M.Eller, ed., Method No. 5700.
6. Kennedy ER, Gagnon YT, Teass AW, Seitz T [1992]. "Development and Evaluation of a Method to Estimate Potential Formaldehyde Dose from Inhalable Dust/Fibers," Appl.Occup.Environ.Hy. 7(4), 231-240.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>E. Michael Goldcamp, Ph.D.</b>		Epidemiologist Tel: (304) 285-5951; E-mail: ehg8@cdc.gov	
EDUCATION/TRAINING:			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Cincinnati, Cincinnati, OH	B.A.	1986-1991	Psychology
West Virginia University, Morgantown, WV	M.A.	1992-1996	Public Policy Analysis
West Virginia University, Morgantown, WV	Ph.D.	1996-2000	Political Science

Positions

2001-present	Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
2000-2001	Assistant Director, West Virginia University, Mary Babb Randolph Cancer Center, Cancer Education and Prevention, Morgantown, WV
1996-1998	Public Health Epidemiologist, North Carolina Department of Health and Human Services, Division of Maternal and Child Health, Immunization Section, Raleigh, NC

Peer-reviewed publications (most recent listed)

1. Goldcamp, E, J Myers, K Hendricks, L Layne, and J. Helmkamp. [2006]. Nonfatal All-Terrain Vehicle-Related Injuries to Youths Living on Farms in the United States, 2001. *J Rural Health* 22 (4) 309-313.
2. Hendricks K, Myers J, Layne L, Goldcamp M [2005]. Household youth on minority operated farms in the United States 2000: Exposures to and injuries from work, horses, ATVs and tractors, *J Safety Res* 36:149-157.
3. Goldcamp M, Hendricks KJ, Myers JR [2004]. Farm fatalities to youth 1995-2000: A comparison by age groups, *J Safety Research* 35(2):151-157.
4. Hendricks K, Goldkamp E, Myers J [2004]. On-farm Falls among Youth Less than 20-years old in the U.S., *Journal of Agric Saf Health* 10(1):27-38.

**BIOGRAPHICAL SKETCH**

03-31-2006

<b>Mark F. Greskevitch</b>		Industrial Hygienist Tel: (304) 285 6305 E-mail: MGreskevitch@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
West Virginia University	B.S.	1978-1982	Engineering of Mines

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

- 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

Peer Reviewed Publications

- 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.
- 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.
- 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.
- 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.
- 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.
- Castranova V., Vallyathan, V., Greskevitch, M., Jones, W.: Cytotoxicity of abrasive blasting substitutes. Seventh Joint Science Symposium (NIOSH, FIOH, NIWL) Proceedings, October, 1998.
- 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.
- 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.
- 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.



9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.

**BIOGRAPHICAL SKETCH**

10-17-2006

<b>Ronald M. Hall, MS, CIH</b>		Deputy Branch Chief Tel: (513) 841-4387; E-mail: rmhall@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of Cincinnati, SUMMA CUM LAUDE	B.S.	1995	Natural Sciences
West Virginia University	M.S.	1999	Occupational Hygiene and Occupational Safety

Recent Positions

2005-present Deputy Branch Chief, Engineering and Physical Hazards Branch, National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati, Ohio

1997-2005 Industrial Hygienist, Hazard Evaluations and Technical Assistance Branch, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, Ohio

Other experience and professional memberships

- Certified Industrial Hygienist (CIH) # 8266, American Board of Industrial Hygiene
- United States Public Health Service Commissioned Officer
- Reserve Officer Association
- Commissioned Officers Association of the United States Public Health Service
- American Conference of Governmental Industrial Hygienist (ACGIH)
- Environmental Health Officer Professional Advisory Committee (EHOPAC)

Peer-reviewed publications (most recent listed)

1. **Hall, R.M.**, Earnest, G.S., Carroll, JN, Spencer, A [2006] Evaluation of Carbon Monoxide Emissions from Engines on Recreational Boats Equipped with Prototype Catalysts. *Journal of Occupational and Environmental Hygiene*, 3: D4-D7
2. **Hall, R.M.**, Trout, D. Earnest, G.S. [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. *Journal of Occupational and Environmental Hygiene*. 1 (5): D49-D53, 2004
3. **Hall, R.M.** [2003] Exposures to Lead, Metals, and Wood Dust During Stripping and Refinishing Furniture. *Appl. Occup. Environ. Hyg.* 18 (9): 639-645.
4. **Hall, R.M.**, Heitbrink, W.A., Reed, L.D.[2002] Evaluation of a Tractor Cab Using Real-Time Aerosol Counting Instrumentation. U.S. DHHS, PHS, CDC, NIOSH. *Appl. Occup. Environ. Hyg.* 17 (1): 47 - 54, 2002.
5. **Hall, R.M.**, Page, E. [1999] Ozone Exposures at a Boiler Construction Site. *Appl. Occup. Environ. Hyg.* 14 (4): 203-207.
6. **Hall, R.M.**, Page, E. [1998] Serious Mercury Contamination at a Glass Plant Following Extensive Cleanup. *Appl. Occup. Environ. Hyg.* 13(12): 799-803.
7. **Hall, R.M.**, J.W. Sheehy, and A.T. Zimmer. *Engineering Controls in Mine Assay Laboratories.* *Appl. Occup. Environ. Hyg.* 13(9): 646-655.
8. **Hall, R.M.** and K.F. Martinez, and P.A. Jensen. Control of Methylene Chloride -Furniture Stripping Dip Tank. *Appl. Occup. Environ. Hyg.* 10(3):188-195 (1995).
9. **Hall, R.M.** and K.F. Martinez, and P.A. Jensen [1996]. From Our Readers: Reply to letter to the Editor on "Control of Methylene Chloride - Furniture Stripping Dip Tank." *Appl. Occup. Environ. Hyg.* 11(5): 431-432.
10. Hammond DR, Earnest GS, **Hall RM**, Feng HA [2006]. An Evaluation of Conditions That May Affect the Performance of Houseboat Exhaust Stacks in Prevention of Carbon Monoxide Poisonings from Generators. *J Occup Environ Hyg* 3(6):308-316.
11. Kevin H. Dunn, Stanley A. Shulman, G. Scott Earnest, **Ronald M. Hall**, Jane B. McCammon, Robert E. McCleery [2003]. Carbon Monoxide and Houseboats: An evaluation of a dry stack exhaust system to reduce poisonings associated with generator exhaust. *Professional Safety Journal*, November, 2003 issue
12. Trout D., Nimgade A., Mueller C., **Hall R.M.**, Earnest G.S., [2002]. Health Effects and Occupational Exposures Among Office Workers Near the World Trade Center Disaster Site. *Journal of Occupational and Environmental Medicine*, Volume 44, Number 7, July 2002.

13. Earnest G.S., Dunn, K., **Hall R.M.**, McCleery R., McCammon, J.B. [2002]. An Evaluation of an Engineering Control to Prevent Carbon Monoxide Poisonings of Individuals on and around Houseboats. *American Industrial Hygiene Association Journal*, (63) 1-9, 2002
14. Estill CF, Watkins DS, **Hall RM**, O'Brien DM, Shulman SA [2002] The impact of maintenance and design for ventilation systems. *Applied Occupational and Environmental Hygiene* 17(5):1-8.
15. Heitbrink, W.A., **Hall, R.M.**, Gibbons, D., Reed, L.D. The Use of Ambient Aerosol for Testing Agricultural Cabs for Protection Against Pesticide Aerosol. *American Journal of Industrial Medicine*. Supplement 1:75-76 [September 1999].
16. Heitbrink, W.A., **Hall, R.M.**, Gibbons, D., Reed, L.D. Review of Ambient Aerosol Test Procedures in ASAE Standard S525. *Journal of Agricultural Safety and Health*. 4(4): 255-266. [1998].

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Duane Hammond, P.E.</b>		Mechanical Engineer Tel: (513) 841-4286; E-mail: Dhammond@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Cedarville University, Cedarville, OH	B.S.	1995-1999	Mechanical Engineering

Positions

2002-present Mechanical Engineer, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH  
 1999-2002 Mechanical Engineer, Rittal Corporation, Springfield, Ohio  
 1996-1999 Engineering Intern, U.S. Army Corps of Engineers, Kansas City, Missouri

Other experience and professional memberships

- Commissioned Officers Association of the United States Public Health Service
- Society of American Military Engineers
- American Conference of Governmental Industrial Hygienists

Peer-reviewed publications (most recent listed)

Hammond DR, GS Earnest, RM Hall and HA Feng [2006]: An Evaluation of Conditions That May Affect the Performance of Houseboat Exhaust Stacks in Prevention of Carbon Monoxide Poisonings from Generators. J Occup Environ Hyg [3] (6) pp.308-316, 2006

DHHS/CDC/NIOSH numbered documents:

Burroughs GE, Connor T, Coyle B, Hammond DR, Leone M, McDiarmid M, Mead KR, Polovich M, Power L, Reed LD [2004]. NIOSH Alert: Preventing Occupational Exposures to Antineoplastic and Other Hazardous Drugs in Health Care Settings. U.S. DHHS, CDC, NIOSH. DHHS (NIOSH) Pub. No. 2004 – 165.

DHHS/CDC/NIOSH technical reports (most recent listed)

Garcia A, DR Hammond, KG Crouch [2006]: Evaluation of Ventilation and Filtration System for LMDS and DPRC. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. Report no: EPHB 279-13a.

Valladares RM, M Gressel, HA Feng, C Kardous, LM Blade, DR Hammond, D Farwick [2005]: In-depth survey report: styrene and noise exposures during fiber reinforced plastic boat manufacturing at Larson/Glastron Inc., Little Falls, Minnesota, report no. CT-306-11a: NIOSH 2005 Jul; 1-33

Hammond DR, BR Beamer, KG Crouch [2005]: Reevaluation of the Ventilation/Filtration System for Revised Hand Cull Stations at the United States Postal Service, Processing and Distribution Center, Baltimore, Maryland. report no. CT-279-22: June 2005.

Garcia A, BR Beamer, KG Crouch and DR Hammond [2005]: In-Depth Survey Report: Evaluation of Ventilation and Filtration System for LMDS and DPRC at United States Postal Service, Processing and Distribution Center, Cincinnati, Ohio, March 21-22, CT-279-21a: May 2005

**BIOGRAPHICAL SKETCH**

<b>David L. Hard, Ph.D.</b>		Research Health Scientist Tel: (304) 285-6068; E-mail: DHard@cdc.gov	
EDUCATION/TRAINING:			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Missouri, Columbia, MO	B.S.	1979	Agriculture (Cum Laude and Honors Scholar)
University of Missouri, Columbia, MO	M.Ed.	1981	Practical Arts and Vocational-Technical Ed.
The Ohio State University Columbus, OH	Ph.D.	1989	Agricultural Education (Areas of Study - Research and Statistics, Agricultural Mechanics, Teacher Education)

Positions

- 2006-present Research Health Scientist (Agricultural Safety and Health), Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
- 2001-2006 Health Scientist (Agricultural Safety and Health), Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
- 1997-2001 Safety Engineer (Research), Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
- 1990-1997 Occupational Safety and Health Specialist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV

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
- Graduate Teaching Associate/Graduate Research Associate, Agricultural Engineering Department, The Ohio State University, Columbus, Ohio.
- St. James R-1 Schools, St. James, Missouri, Vocational Agriculture Instructor.

Editorial Boards

- Journal of Agricultural Safety and Health, Editor (9-1-2006 – present)
- Journal of Agricultural Safety and Health Associate Editor (5-13-94 to 8-31-2006).
- CDC/NIOSH editorial board for the Report to Congress on Workers’ Home Contamination Study (1995).
- National Committee for Childhood Agricultural Injury Prevention. Children and Agriculture: Opportunities for Safety and Health (1994 to 1996), Chair Research Committee.
- The American Journal of Rural Health (10-1-92 to 1998).
- FarmSafe 2000, NIOSH quarterly publication, (6-1-92 to 6-1-94).
- Ad Hoc Working Group on Agricultural Health and Safety: Task Force Reports. August 10, 1994. The Farm Foundation, 1992-1994. Committee Chair of the Statistical Data Task Force Report.
- Papers and Proceedings of the Surgeon General’s Conference on Agricultural Safety and Health. GPO 017-033-00463-3, September 1992.

Professional, Educational, and Other Recognition

- National Institute for Farm Safety President’s Award (2005 & 2003)
- Special Act of Service Award, Department of Health and Human Services, Public Health Service (1996, 1994, & 1991)

Alice Hamilton Science Award for Occupational Safety and Health, 1996 nominee  
Finalist, (top 20), Ohio State University Outstanding GTA (1988)  
Gamma Sigma Delta, International Honor Society of Agriculture, University of Missouri- Columbia Chapter (1978) and The Ohio State University Chapter (1989)  
Phi Delta Kappa, Professional Fraternity in Education (1988)  
Alpha Tau Alpha, Agricultural Education Honorary (1977)  
Deans Honor Roll, University of Missouri-Columbia (1977-79)  
University Scholar, University of Missouri-Columbia (1978-79)  
Honors Scholar (1978-79), University of Missouri-Columbia  
Cum Laude Graduate, 1979, University of Missouri-Columbia

#### Special Appointments

USDA Hazardous Occupational Safety Training in Agriculture Steering Committee—2001 to present.  
NIOSH-wide Agriculture Steering Committee (NASC)—1996 to 2005. DSR representative.  
NORA 2002 Intramural Agriculture Program Coordinator.  
North American Guidelines for Children’s Agricultural Tasks (NAGCAT) Committee—1998 to present. Developed 62 work guidelines for youth to be distributed on a national level.  
National Children’s Center for Rural and Agricultural Health and Safety (NCCRAHS)—1998 to present, NIOSH representative to the steering committee for the NCCRAHS.  
NIOSH-wide National Skills Standards Team—member representing NASC and DSR (2-8-99 to present)  
NIOSH-wide Child Labor Team—member (3-25-1996 to 2001)  
National Committee for Childhood Agricultural Injury Prevention (NCCAIP), March 1995 to April 1996.  
National Committee for Childhood Agricultural Injury Prevention (NIOSH representative)—Chair of the Research Committee—1995-1996.  
National FFA Foundation National Advisory Board for the *Partners for a Safer Community* (NIOSH representative)—1995 to 1999.  
Federal Task Force on Preventing Childhood Agricultural Injuries—Chair (2000)  
Federal Task Force on Preventing Childhood Agricultural Injuries—member (9-1-97 to 1999)  
Ad Hoc Working Group on Agricultural Health and Safety, convened by the Farm Foundation from 1992-1994.  
Statistical Database Task Force Chairman, 1992-1994.  
Division of Safety Research (DSR)—chair of agriculture team (10-25-1995 to 1999)

#### Professional Organizations

National Institute for Farm Safety (NIFS)—member (1-1-1991)  
—President-elect 2000/2001, President 2001-2002, Immediate Past President 2002-2003  
—NIFS Board member (6-24-1998 to June 2005)  
—Chair of Research and Development Committee, Standing Com. (10-24-1995 to 1998)  
—Tractor & Machinery; Rural Transportation, Issue Area Com, member (10-21-1999 to present)  
—Childhood Ad Hoc Committee, member (6-18-1993 until 1-22-1996)  
American Society of Agricultural and Biological Engineers, Ergonomics, Safety and Health Division, Vice-Chair July 2003 – present.  
American Society of Agricultural Engineers (ASAE)—T-15 Ergonomics, Safety and Health Division  
—Vice Chair 2003/2006  
—Secretary 2000/2003  
—Participant (1991)  
—ASAE member (1996)  
National Safety Council, Agriculture Division—participant (10-22-90 to 1-1-2002)  
Chair, Evaluation subcommittee of the Research Committee, 1994-1997.  
American Federation of Government Employees, Local 3430. (10-25-02 to present) Vice-President.

#### Peer-reviewed publications (most recent listed)

1. Hard DL & Myers JR. 2006. Fatal Work-Related Injuries in the Agriculture Production Sector Among Youth in the United States, 1992-2002. Accepted May 30, 2006 for publication in the *Journal of Agromedicine*, 11(2).
2. Chapman LJ, Taveria AD, Josefsson KG and Hard DL. 2003. Evaluation of an occupational injury intervention among Wisconsin dairy farmers. *Journal of Agricultural Safety and Health*, 9(3): 197-209.

3. Hard DL, Myers JR and Gerberich SG. 2002. Traumatic injuries in agriculture. Journal of Agricultural Safety and Health, 8(1):51-65.
4. Joeseffson KG, Chapman LJ, Taveira AD, Holmes BJ and Hard DL. 2001. A hazard analysis of three silage storage methods for dairy cattle. Human and Ecological Risk Assessment. 7(7):1895-1908.
5. Landsittel D, Murphy DJ, Kiernan NE, Hard DL, Kassab,C. 2001. An evaluation of the effectiveness of educational interventions in the Pennsylvania Central Region farm safety pilot project. American Journal of Industrial Medicine, 40(2):145-152.
6. Hard DL, Myers JR, Snyder KA, Casini VJ, Morton LL, Cianfrocco R and Fields J. 1999. Identifying work related fatalities in the agricultural production sector using two national occupational fatality surveillance systems, 1990-1995. Journal of Agricultural Safety and Health, 5(2):155-169.
7. Hard DL, Myers JR, Snyder KA, Casini VJ, Morton LL, Cianfrocco R and Fields J. 1999. Young workers at risk when working in agricultural production. American Journal of Industrial Medicine, Volume 36, Supplement 1:31-33.
8. Myers JR , Hard DL, Snyder KA, Casini VJ, Morton LL, Cianfrocco R and Fields J. 1999. Risks of fatal injuries to farm workers 55-years of age and older. American Journal of Industrial Medicine, Volume 36, Supplement 1:29-30.
9. Murphy DJ, Kiernan NE, Hard DL and Landsittel D. 1998. The Pennsylvania Central Region farm safety pilot project: Part I--Rationale and baseline results. Journal of Agricultural Safety and Health, 4(1):25-41.
10. Castillo D, Hard D, Myers J, Pizatella T, Stout N. 1998. A national childhood agricultural injury prevention initiative. Journal of Agricultural Safety and Health, Special Issue 1: 183-191.
11. Pratt SG and Hard DL. 1998. Risk factors associated with agricultural workplace fatalities. Journal of Agricultural Safety and Health, Special Issue 1: 29-38.
12. Myers J, Snyder K, Hard D, Casini V, Cianfrocco R, Fields J and Morton L. 1998. Statistics and epidemiology of tractor fatalities--A historical perspective. Journal of Agricultural Safety and Health, 4(2): 95-108.
13. Landsittel D, Hard DL, Murphy DJ and Kiernan NE. 1998. The Pennsylvania Central Region Farm Safety Pilot project: Part II--Baseline data associations between approach-to-safety and hazard conditions. Journal of Agricultural Safety and Health, Special Issue 1: 21-28.
14. Hard D. 1997. Fourth edition of the International Labour Offices' Encyclopaedia of Occupational Health and Safety. Volume 3, Part IV: Industries and Occupations, in Chapter *Livestock and Rearing*, Myers M, editor, article *Animal Behaviour*, 70.14.
15. Mason RW, ed.: Report to Congress on workers' home contamination study conducted under the Workers' Family Protection Act [281 pages]. NIOSH, US Dept Health & Human Services, Cincinnati, OH. September, 1995.
16. Myers J R.& Hard DL. 1995. Work-Related fatalities in the agricultural production and services sectors, 1980-1989. American Journal of Industrial Medicine, 27(1):51-63. Wiley-Liss, Inc., NY, NY.
17. Hard DL, Myers JR, Fosbroke DE, Jenkins EL & Bender TR. The agricultural health promotion system: its use in building state-based agricultural safety and health infrastructures for developing a national model. Supplement to Agricultural Health and Safety: Workplace, Environment, Sustainability, pp. 243-247. Lewis Publishers, Chelsea, Michigan, 1994.
18. Myers ML, Herrick RF, Olenchock SA, Myers JR, Parker JE, Hard DL and Wilson K (editors). 1992. Papers and Proceedings of the Surgeon General's Conference on Agricultural Safety and Health [645 pages], PL 101-517. NIOSH, US Department of Health and Human Services, Centers for Disease Control, September, 1992. GPO number 017-033-00463-3 or NTIS number PB 93-114890.
19. Jenkins EL & Hard DL. 1992. Implications for the use of E codes of the International Classification of Diseases and narrative data in identifying tractor-related deaths in agriculture, United States, 1980--1986. The Scandinavian Journal of Work, Environment and Health, Volume 18, Supplement 2, pp. 49-50.
20. Hard DL, Myers JR, Stout NS, & Pizatella TJ. 1992. A model agricultural health promotion systems program for building state-based agricultural safety and health infrastructures. The Scandinavian Journal of Work, Environment and Health, Volume 18, Supplement 2, pp. 46-48.

**BIOGRAPHICAL SKETCH**

10-19-2006

<b>James R. Harris, M.S., P.E.</b>		Research Safety Engineer Tel: (304) 285-6120; E-mail: JHarris@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
West Virginia University, Morgantown, WV	B.S.	1989-1993	Mechanical Engineering
West Virginia University, Morgantown, WV	M.S.	1993-1995	Mechanical Engineering

Positions

1995-present    Research Safety Engineer, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV

1993-1995      Technical Automation Specialist, HGO Technology, Inc., Morgantown, WV

1993-1995      Graduate Research Assistant, West Virginia University, Morgantown, WV

Other experience and professional memberships

American Society of Mechanical Engineers (ASME) – member of Safety Engineering and Risk Analysis Division (SERAD)

American Society of Safety Engineers (ASSE) – member of Engineering Practice Specialty

Peer-reviewed publications (most recent listed)

1. Etherton JR, Cutlip RG, Harris JR, Ronaghi M, Means KH, Howard S. Dynamic performance of the mechanism of an automatically deployable ROPS. *Journal of Agricultural Safety and Health* 2002;8(1):113-118.
2. Etherton JR, Cutlip RG, Harris JR, Ronaghi M, Means KH, Gillispie A. Static load test performance of a telescoping structure for an automatically deployable ROPS. *Journal of Agricultural Safety and Health* 2002;8(1):119-126.



**BIOGRAPHICAL SKETCH**

10-18-2006

<b>William A. Heitbrink, Ph.D, C.I.H.</b> (no longer with NIOSH)		Industrial Hygienist Tel: (319) 335-4213; E-mail:William-heitbrink@uiowa.edu	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Dayton, Dayton, OH	B.Ch. E.	1967-1971	Chemical Engineering
University of Cincinnati, Cincinnati, OH	M.S.	1981-1983	Industrial Hygiene
University of Cincinnati, Cincinnati, OH	Ph.D.	1988 -1990	Industrial Hygiene

Positions

- 2001-present Associate Professor, Division of Occupational and Environmental Health, College of Public Health, The University of Iowa, Iowa City, IA
- 1971-2001 Industrial Hygienist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

Other experience and professional memberships

- American Conference of Governmental Industrial Hygienists  
 American Industrial Hygiene Association (AIHA)  
 Engineering Committee, AIHA (1995-1998)  
 Director, Ohio Valley section of AIHA (1993-1996)  
 American Institute of Chemical Engineers  
 American Academy of Industrial Hygiene

Peer-reviewed publications (most recent listed)

1. Heitbrink WA, Evans DE, Peters TM, Slavin TJ (2007): The Characterization and Mapping of Very Fine Particles in an Engine Machining and Assembly Facility. In Press: Journal of Occupational and Environmental Hygiene
2. Heitbrink WA and Bennett (2006): A Numerical and Experimental Investigation of Crystalline Silica Exposure Control During Tuck-Pointing. Journal of Occupational and Environmental Hygiene, 3: 366–378.
3. Peters TM, Heitbrink WA, Evans DE, Slavin TJ Maynard AD (2006)The Mapping of Fine and Ultrafine Particle Concentrations in an Engine Machining and Assembly Facility. Annals Annals of Occupational Hygiene 2006 50(3):249-257.
4. Moyer ES, Heitbrink WA, Jensen PA. An Environmental Tractor Cab System Integrity Test. Journal of Occupational and Environmental Health. Journal of Occupational and Environmental Hygiene, 2: 516–523. 2005.
5. Heitbrink WA, Collingwood S (2005). Aerosol Generation by Blower Motors As a Bias in Assessing Aerosol Penetration into Cabin Filtration Systems. J Occup and Environ Hlth 2:45-53, 2005.
6. Cecala AB Organiscak JA, Zimmer JA, Heitbrink WA, Moyer ES, Schmitz M, Ahrenholtz E. (2005) Reducing Enclosed Cab Drill Operator Respirable Dust Exposure with Effective Filtration and Pressurization Techniques. J Occup Environ Hlth. 2:54-63.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Kitty Hendricks, M.A.</b>		Research Epidemiologist Tel: (304) 285-6252; E-mail: KHendricks@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
West Virginia University, Morgantown, WV	B.A.	1989-1993	Psychology
West Virginia University, Morgantown, WV	M.A.	1993-1995	Applied Social Research

Positions

- 1997-present Research Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
- 1995-1997 Research Assistant, National White Collar Crime Center, Training and Research Institute, Morgantown, WV
- 1994-1995 Research Associate, West Virginia University, Survey Research Center, Morgantown, WV

Peer-reviewed publications (most recent listed)

1. Goldcamp M, Myers J, Hendricks KJ, Layne L (2006) Non-fatal All-Terrain Vehicle Injuries to Youth Living on Farms in the U.S., 2001. *J Rural Health* 22(4): 309-313.
2. Goldcamp EM, Hendricks KJ, Layne LA, Myers JR (2006). Nonfatal Injuries to Household Youth on Racial Minority-Operated Farms in the U.S., 2000. *Journal of Agricultural Safety and Health* 12(4): 315-324.
3. Hendricks KJ, Layne LA, Goldcamp EM, Myers JR (2005). Injuries to Youth Living on US Farms in 2001 with Comparison to 1998. *Journal of Agromedicine* 10(4): 19-26.
4. Hendricks KJ, Myers JR, Layne LA, Goldcamp EM (2005). Household youth on minority operated farms in the United States, 2000: Exposures to and injuries from work, horses, ATVs, and tractors. *J of Safety Research* 36: 149-157.
5. Goldcamp EM, Hendricks KJ, Layne LA, Myers JR (2005). Nonfatal Injuries to Household Youth on Native American Operated Farms in the U.S., 2000. Submitted to the *Journal of Agromedicine*.
6. Goldcamp EM, Hendricks KJ, Myers JR (2004). Farm fatalities to youth 1995-2000: A comparison by age group. *Journal of Safety Research* 35(2): 151-157.
7. CDC (2004). Occupational fatalities during trenching and excavation work - United States, 1992-2001. *MMWR* 53(15): 311-314.
8. Hendricks KJ, Goldcamp EM, Myers JR (2004). On-farm Falls among Youth Less than 20 Years Old. *Journal of Agricultural Safety and Health* 10(1): 27-38.
9. Hendricks KJ, Adekoya N (2001). Non-Fatal Animal-Related Injuries to Youth Occurring on Farms in the United States - 1998. *Injury Prevention* 7(4):307-311.
10. Chen, G-X, Hendricks, KJ. (2001) Nonfatal Occupational Injuries among African American Women by Industrial Group. *Journal of Safety Research* 32:75-84.
11. Hendricks, KJ, Layne, LA. (1999) Adolescent Occupational Injuries in Fast Food Restaurants: An Examination of the Problem from a National Perspective. *Journal of Occupational and Environmental Medicine* 41 (12):1146-1153.

**BIOGRAPHICAL SKETCH**

9-16-2006

<b>Doloris Higgins, M.S.</b>		Safety and Occupational Health Specialist Tel: (304) 285-6276; E-mail: DHiggins @cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Wisconsin Madison, Wisconsin	B.S.	1962-1966	Nursing
West Virginia University Morgantown, West Virginia	M.S.	1997- 1999	Safety Management

Positions

- 1998-present Safety and Occupational Health Specialist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
- 1995-1998 Safety and Occupational Health Specialist, West Virginia University, Morgantown, WV

Other experience and professional memberships

American Association of Occupational Health Nursing

Peer-reviewed publications (most recent listed)

- Higgins DN, Helmkamp JC, Williams JM, King ME [2000]. Work related deaths in West Virginia, AAOHN 48(7):331-337.
- Higgins DN, Casini VJ, Bost P, Johnson W, Rautiainen R [2001]. The Fatality Assessment and Control Evaluation program's role in the prevention of occupational disease, Injury Prevention 7(Suppl 1):i27-i33.
- Higgins D, Tierney J, Hanrahan L [2002]. Preventing youth worker fatalities: the Fatality Assessment and Control Evaluation (FACE) Program, AAOHN 50(11):508-514.
- Higgins DN, Tierney J, Lins M, Hanrahan L [2004]. School Nurses: A Resource for Young Worker Safety, J Sch Nur 20(6):317-323.

**BIOGRAPHICAL SKETCH**

10-19-2006

<b>Cynthia J. Hines, M.S.</b>		Senior Research Industrial Hygienist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Hamline University, St. Paul, MN	B.A.	1975	Chemistry (ACS) and Biology
St.Paul-Ramsey Medical Center, St. Paul, MN	M.S.	1976	Medical Technology
University of California, Berkeley, CA		1981	Environmental Health Sciences

Work Experience

11/92 - present National Institute for Occupational Safety and Health, Cincinnati, OH  
 4/87-11/92: Lecturer & Research Associate, University of California at Berkeley, School of Public Health  
 9/86-4/87: Industrial Hygiene Consultant, Safety Specialists, Inc., Santa Clara, CA  
 9/81-9/86: Industrial Hygienist, State of Oregon

Honors and Awards

- NIOSH Alice Hamilton Science Award: Best Paper in Human Studies, 2001
- Phi Beta Kappa, Hamline University, 1975

Publications

1. Hines CJ, Deddens JA, Lu C, Fenske F, Striley CAF: Mixed-Effect Models for Evaluating Multiple Measures of Atrazine Exposure Among Custom Applicators (2006). *J Occup Environ Hyg* 3: 274-283.
2. Thomas, JA et.al. Center for the Evaluation of Risks to Human Reproduction (2004): NTP-CERHR Expert Panel report on the reproductive and developmental toxicity of ethylene glycol. *Reproductive Toxicology* 18:475-532.
3. Thomas et al., Center for the Evaluation of Risks to Human Reproduction (2004): NTP-CERHR Expert Panel report on the reproductive and developmental toxicity of propylene glycol. *Reproductive Toxicology* 18:533-579
4. Hines CJ, Deddens JA, Striley CAF, Biagini RE, Shoemaker DA, Brown KK, MacKenzie BA, Hull RD (2003): Biological Monitoring for Herbicide Biomarkers in the Urine of Exposed Custom Applicators: Application of Mixed-Effect Models. *Annals Occup Hyg* 47:503-517.
5. Hines CJ, Waters MA, Larsson L, Petersen MR, Saraf A, Milton DK (2003): Characterization of Endotoxin and 3-Hydroxy Fatty Acid Levels in Air and Settled Dust from Commercial Aircraft. *Indoor Air* 13:166-173.
6. Mendell MJ, Fisk WJ, Kreiss K, Levin H, Alexander D, Cain WS, Girman JR, Hines CJ, Jensen PA, Milton DK, Rexroat LP, Wallingford KM (2002): Improving the Health of Workers in Indoor Environments: Priority Research Needs for a National Occupational Research Agenda. *Amer J Public Health* 92:1430-1440.
7. Dick RB, Steenland K, Krieg EF, Hines CJ (2001): Evaluation of Acute Sensory-motor Effects and Test Sensitivity Using Termiticide Workers Exposed to Chlorpyrifos. *Neurotoxicol Teratol* 23:381-393.
8. Mendell MJ, Fisk WJ, Petersen M, Hines CJ, Faulkner D, Dong MX, Deddens JA, Ruder AM, Sullivan D, Boeniger MF: Experimentally-Enhanced Particle Filtration, Observed Temperature Variation, and Changes in Questionnaire-Based Outcomes among Office Workers (2002). *Epidemiology* 13:296-304.
9. Hines CJ, Deddens JA (2001): Determinants of Chlorpyrifos Exposure and Urinary 3,5,6-Trichloro-2-pyridinol Among Termiticide Applicators *Annals Occup Hyg* 45:309-321.
10. Hines CJ, Deddens JA, Tucker SP, Hornung RW (2001): Distributions and Determinants of Pre-Emergent Herbicide Exposures Among Custom Applicators. *Annals Occup Hyg* 45:227-239.
11. Tucker SP, Reynolds JM, Wickman DC, Hines CJ, Perkins JB (2001): Development of Sampling and Analytical Methods for Concerted Determination of Commonly Used Chloroacetanilide, Chlorotriazine and 2,4-D Herbicides in Hand Wash, Dermal Patch and Air Samples. *Appl Occ Environ Hyg* 16:698-707.
12. Denovan LA, Lu C, Hines CJ, Fenske RA (2000): Saliva Biomonitoring of Atrazine Exposure Among Herbicide Applicators. *Int Arch Occup and Environ Health*, 73:457-462.
13. MacKenzie BA, Striley CAF, Biagini RE, Stettler LE, Hines CJ (2000): Improved Rapid Analytical Method for the Urinary Determination of 3,5,6 Trichloro-2-Pyridinol, a Metabolite of Chlorpyrifos, *Bull Environ Contam Toxicol* 65:1-7.

14. Steenland K, Dick RB, Howell RJ, Chrislip DW, Hines CJ, Reid TM, Lehman E, Laber P, Krieg EF, Knott C (2000): Neurologic Function Among Termiticide Applicators Exposed to Chlorpyrifos. *Environ Health Perspectives* 108:293-300.
15. Hines CJ, Milton DK, Larsson L, Petersen MR, Fisk WJ, Mendell M (2000): Characterization of Endotoxin and 3-Hydroxy Fatty Acids in an Office Building. *Indoor Air* 10:2-12.
16. Woskie SR, Hammond SK, Hines CJ, Hallock MF, Kenyon E, Schenker MB (2000): Personal Fluoride and Solvent Exposures, and Their Determinants, in Semiconductor Manufacturing. *Appl Occup Environ Hyg* 15:354-361.
17. Fenske RA, Simcox NJ, Camp J, Hines CJ (1999): Comparison of three methods for assessment of hand exposure to azinphos-methyl (Guthion) during apple thinning. *Applied Occup Environ Hyg* 14:618-623.
18. Mendell MJ, Fisk WJ, Dong MX, Petersen M, Hines CH, Faulkner D, Deddens JA, Ruder AM, Sullivan D, Boeniger MF (1999). Effects on occupants of enhanced particle filtration in a non-problem office environment: preliminary results from a double-blind crossover intervention study. *Amer J Ind Med Supplement* 1:55-57
19. Mastin JP, Striley CAF, Biagini RE, Hines CJ, Hull RD, MacKenzie BA, Robertson SK: Use of Immunoassays for Biomonitoring of Herbicide Metabolites in Urine (1998): *Analytica Chimica Acta* 376:119-124.
20. Steenland K, Cedillo L, Tucker J, Hines C, Sorensen K, Deddens J, Cruz V (1997): Thyroid Hormones and Cytogenetic Outcomes in Backpack Sprayers Using Ethylenebis(dithiocarbamate) (EBDC) Fungicides in Mexico. *Environ Health Perspectives* 105(10):1126-1130.
21. Hammond SK, Hines CJ, Hallock MF, Woskie SR, Kenyon EM, Schenker MB (1996): Exposures to Glycol Ethers in the Semiconductor Industry. *Occup Hyg* 2:355-366.
22. Driskell WJ, Hill RH, Shealy DB, Hull RD, Hines CJ (1996): Identification of a Major Human Urinary Metabolite of Alachlor by LC-MS/MS. *Bull Environ Contam Toxicol* 56:853-859.
23. Hines CJ, Selvin S, Samuels SJ, Hammond SK, Woskie SR, Hallock MF, Schenker MB (1995): Hierarchical Cluster Analysis for Exposure Assessment of Workers in the Semiconductor Health Study. *Am J Ind Med* 28(6):713-722.
24. Hammond SK, Hines CJ, Hallock MF, Woskie SR, Abdollahzadeh S, Iden R, Ramsey F, Anson E, Schenker MB (1995): Tiered Exposure-Assessment Strategy in the Semiconductor Health Study. *Am J In Med* 28(6):661-680.
25. Hallock MF, Hammond SK, Hines CJ, Woskie SR, Schenker MB (1995): Patterns of Chemical Use and Exposure Control in the Semiconductor Health Study. *Am J Ind Med* 28(6):681-697.
26. Woskie SR, Hammond SK, Hines CJ, Hallock MF, Schenker MB (1995): Algorithms for Estimating Personal Exposures to Chemical Agents in the Semiconductor Health Study. *Am J Ind Med* 28(6):699-711.
27. Gold EB, Eskenazi B, Hammond SK, Lasley B, Samuels SJ, O'Neill Rasor M, Hines CJ, Overstreet J, Schenker MB (1995): Prospectively Assessed Menstrual Cycle Characteristics in Female Wafer-Fabrication and Nonfabrication Semiconductor Employees. *Am J Ind Med* 28(6):799-815.
28. Swan SH, Beaumont JJ, Hammond SK, VonBehren J, Green R, Hallock MF, Woskie SR, Hines CJ, Schenker MB (1995): Historical Cohort Study of Spontaneous Abortion Among Fabrication Workers in the Semiconductor Health Study: Agent-Level Analysis. *Am J Ind Med* 28(6):751-769.
29. Eskenazi B, Gold EB, Lasley B, Samuels SJ, Hammond SK, Wight S, O'Neill Rasor M, Hines CJ, Schenker MB (1995): Prospective Monitoring of Early Fetal Loss and Clinical Spontaneous Abortion Among Female Semiconductor Workers. *Am J Ind Med* 28(6):833-846.
30. Hines CJ, Spear RC (1984): Estimation of Cumulative Exposures to Ethylene Oxide Associated with Hospital Sterilizer Operation, *Am Ind Hyg Assoc J* 45:44-47.
31. Yager JW, Hines CJ, Spear RC (1983): Exposure to Ethylene Oxide at Work Increases Sister Chromatid Exchanges in Human Peripheral Lymphocytes, *Science* 219:1221-1223.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Hongwei Hsiao, Ph.D.</b>		Branch Chief Tel: (304) 285-5910; E-mail: hxx4@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
National Cheng Kung University, Taiwan	B.S.	1973-1977	Engineering
Cornell University, Ithaca, NY	M.A.	1984-1985	Design
University of Michigan, Ann Arbor, MI	M.S.E.	1985-1988	Industrial Engineering
University of Michigan, Ann Arbor, MI	Ph.D.	1985-1990	Industrial Engineering

Positions

1996-present	Chief, Protective Technology Branch (PTB), Division of Safety Research (DSR), National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV
1993-1996	Chief, Safety Controls Section (SCS), PTB, DSR, NIOSH, Morgantown, WV
1991-1993	Biomechanical Engineer, Division of Safety Research, National Institute for Occupational Safety and Health (NIOSH)
1985-1990	Research Assistant, University of Michigan, Ann Arbor, MI
1984-1985	Teaching Assistant, Cornell University, Ithaca, NY
1979-1983	Engineer and Assistant Manager, Nan-Ya Plastics Corp., Taipei, Taiwan
1977-1979	Second Lieutenant and Platoon Leader

Other experience and professional membershipsMemberships

Ergonomics Society (UK) – Fellow  
 Human Factors and Ergonomics Society -- Honorary Fellow  
 American Society of Safety Engineers (Full Member)  
 American Society of Biomechanics (1985 – 2003; Full Member)  
 International Society for Fall Protection (2001 -2004; Full Member)  
 Society of Automotive Engineers (2002 - 2004; Full Member)

National Committee Assignments

SAE G-13 Committee for American Standards for Human Modeling (1997- 2006)  
 U.S. Technical Advisory Group for Fall Protection, Delegation to ISO TC-94 (1999-2006)  
 Human Factors Society HF-3000 Committee for the American Standards for Anthropometry and Biomechanics (1997)  
 Ergonomic Invention Competition Committee, the Laborers Health and Safety Fund of North America (1995-1997)  
 National Civilian American and European Surface Anthropometry Resource (CAESAR) Study Partners Committee (1996-2002)  
 Research Committee of the American Society of Safety Engineers Foundation (2004-2006)  
 NORA Program Committee for Musculoskeletal Disorders (1997-2001)  
 Technical Advisor for the National Research Council Fellowships on Safety Engineering (1996 - 2005).  
 Editorial board member for Safety Science, Applied Ergonomics, and International Journal of Industrial Ergonomics journals (1999-2006);  
 Ad hoc Reviewer for Ergonomics (2002-2006), IJIE (1996-2006), HFM (2000-2006), Human Factors (2001, 2003, 2005), Graphical Models (2001), SAE Transactions (2001-2006), and Biomechanics journals (2005-2006).  
 General Chair for the New Thoughts on 21<sup>st</sup> Century Labor Policy Program, including occupational safety and health, labor policy, production planning, and employee-employer relations sessions, Chinese-American Academic and Professional Convention, July 1-4, 1999, Washington, D.C.  
 Coordinator and Session Chair, SAE Digital and Human Modeling for Design and Engineering Conference and Exposition, 2000-present

Honors

Alice Hamilton Award for Excellence in Occupational Safety and Health (2006)  
 Bullard-Sherwood r2p Award for Transfer of Knowledge (2006)  
 Professional Service Award, the Ergonomics Society (2005)  
 CDC Shepard Award NIOSH Nominee (2004)

National Occupational Research Agenda (NORA) Partnering Award for Worker Safety and Health (2003).  
 International Ergonomics Association (IEA) Liberty Mutual Prize in Occupational Safety and Ergonomics (2002)  
 Centers for Disease Control and Prevention (CDC) Invention Award (1999)  
 Keynote Speaker on falls prevention for the Slip, Trip, and Fall Symposium at the Ergonomics Society annual conference (UK; 2005).  
 Keynote speaker, International Conference on Advanced Industrial Design, December 9-11, 2001, Tainan, Taiwan.

#### Recent Publications

1. Hsiao H., Whitestone J., and Kau T., Evaluation of Fall-Arrest Harness Sizing Scheme, Human Factors, 48, 2006. [in press]
2. Hsiao H., Whitestone J., Bradtmiller B., Zwiener J., Whistler R., Kau T., Gross M., and Lafferty C., Anthropometry Criteria for the Design of Tractor Cabs and Protection Frames, Ergonomics, 48 (4):323-353, 2005.
3. Simeonov P., Hsiao H., Dotson B., and Ammons D., Height Effects in Real and Virtual Environments, Human Factors, 47(2):430-438, 2005.
4. Hsiao H., Simeonov P., Dotson B., Ammons D., Kau T., and Chiou S., Human Responses to Augmented Virtual Scaffolding Models, Ergonomics 48 (10):1223-1242, 2005.
5. Zhuang Z., Guan J., Hsiao H., and Bradtmiller B., Evaluating the Representativeness of the LANL Respirator Fit Test Panels for the Current U.S. Civilian Workers, Journal of the International Society for Respiratory Protection, 21:83-93, 2004.
6. Hsiao H., Bradtmiller B., Whitestone J., Sizing and Fit of Fall-Protection Harnesses, Ergonomics, Vol. 46, No. 12, 1233-1258, 2003.
7. Simeonov P., Hsiao H., Dotson B., Ammons D., Control and Perception of Balance at Elevated and Sloped Surfaces, Human Factors 45 (1): 136-147, 2003.
8. Hsiao H., Long D., Snyder K., Anthropometric Differences among Occupational Groups, Ergonomics, 45 (2), pp 136-152, 2002.
9. Hsiao H., Guan J., and Weatherly M., Accuracy and Precision of Two Foot Pressure Measurement Systems, Ergonomics, 45 (8): 537-555, 2002.
10. Cutlip R., Hsiao H\*, Becker E., Garcia R., and Mayeux, B., Optimal Hand Locations for Safe Scaffold-End-Frame Disassembly, Applied Ergonomics, 33(4): 349-355, 2002 [\*Corresponding author].
11. Hsiao H. and Simeonov, P., Preventing Falls from Roofs: A Critical Review, Ergonomics, 44 (5), pp 537-561, 2001.
12. Giorcelli R., Hughes R., Wassell J., and Hsiao H\*, The Effect of Wearing a Back Belt on Spine Kinematics during Asymmetric Lifting of Large and Small Boxes, Spine, 26(16): 1794-1798, 2001. [\*Corresponding author]
13. Bobick T., Belard J, Hsiao H., and Wassell, J., Physiological Effects of Back Belt Wearing During Asymmetric Lifting, Applied Ergonomics, 32(6): 541-547, 2001.
14. Simeonov P. and Hsiao H., Height, Surface Firmness and Visual Reference Effects on Balance Control, Injury Prevention, vol. 7, supplement I, pp150-153, 2001.
15. Hsiao H., Guan J., Mayeux B., & Cutlip R. Identifying less stressful work methods: Computer-aided simulation vs. human subject study. SAE Transactions, 109(6): pp 2231-2236, 2001.
16. Zhuang Z., Stobbe T., Collins J., Hsiao H. and Hobbs, G., Psychophysical Study of Assistive Devices for Transferring Residents, Applied Ergonomics, 31, pp 35-44, 2000.
17. Zeng S., Powers J., and Hsiao H., A New Video-Synchronized Multi-Channel Biomedical Data Acquisition System, IEEE Transactions on Biomedical Engineering, vol. 47, No. 3, pp 412-419, March 2000.
18. Pan C. S., Chiou S., Hsiao H., Becker P., and Akladios M. Assessment of Perceived Traumatic Injury Hazards During Drywall Taping/Sanding, International Journal of Industrial Ergonomics, 25(6), pp 621-631, 2000.
19. Cutlip R., Hsiao H\*, Becker E., Garcia R., and Mayeux B., Comparison of Postures for Scaffold End Frames Disassembly, Applied Ergonomics, 31, pp 507-513, 2000. [\*Corresponding author]
20. Zhuang Z., Stobbe T., Hsiao H., Collins J., Hobbs G., Biomechanical Evaluation of Assistive Devices for Transferring Residents, Applied Ergonomics, 30, pp 285-294, 1999.
21. Pan S., Chiou S., Hsiao H., Wassell J. and Keane, P., Assessment of perceived traumatic injury hazards during drywall hanging, International Journal of Industrial Ergonomics, 25(1), pp 29-37, 1999.
22. Hsiao H., Ergonomics: Definitions, in Mital A., Ayoub M., Kumar S., Wang M. (eds.), Industrial and Occupational Ergonomics: Users Encyclopedia, 10 pages, February, 1999.
23. Hsiao H. and Halperin W., Occupational Safety and Human Factors, Chapter 64 in W. N. Rom (eds.),

- Environmental and Occupational Medicine, (Third Edition), pp 919-932 1998.
24. Hsiao H., Stanevich R., Pizatella T., Snyder K., and Halperin W., New NIOSH Programs for Preventing Occupational Traumatic Injury, International Journal of Industrial Ergonomics, 20, pp501-508, 1997.
  25. Hsiao H. and Stanevich R., Biomechanical Evaluation of Frame Scaffolding Tasks, International Journal of Industrial Ergonomics, 18, pp407-415, 1996.
  26. Hsiao H. and Stanevich R., Injuries and Ergonomic Applications in Construction, Chapter 27 in Bhattacharya and McGlothlin (ed.), Occupational Ergonomics, pp545-568, 1996.



**BIOGRAPHICAL SKETCH**

10/20/2006

<b>Larry L. Jackson, Ph.D.</b>		Supervisory Epidemiologist Tel: (304) 285-5980; E-mail: LLJackson@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Kansas State University, Manhattan, KS Colorado State University, Ft. Collins, CO	B.S. Ph.D.	1973 1978	Chemistry Analytical Chemistry

Positions:

2002-present	Supervisory Epidemiologist and Chief, Injury Surveillance Team, Surveillance and Field Investigations Branch, Division of Safety Research, NIOSH
1998-2002	Research Epidemiologist, Surveillance and Field Investigations Branch, Division of Safety Research, NIOSH
1996-1998	Physical Scientist and Team Leader, Protective Technology Branch, Division of Safety Research, NIOSH
1980-1996	Chemist/Environmental Geochemist, U.S. Geological Survey
1978-1979	Senior Chemist, Allied Chemical and Exxon Nuclear

National Committees:

ANSI Z87 Eye and Face Protection Committee (1996-present)  
National Eye Institute Healthy Vision 2010 Workgroup (2000-present)

Recent Publications:

1. Marsh SM, Derk SJ, Jackson LL. [2006]. Nonfatal occupational injuries and illnesses among workers treated in hospital emergency departments—United States, 2003. MMWR: 55(16), 449-452.
2. OSHA-NIOSH Issues Exchange Group (Jackson LL contributor). [2004]. Avian Influenza—Protecting Poultry Workers at Risk; Safety and Health Information Bulletin (SHIB 12-13-2004), 8 pages: OSHA internet page <http://www.osha.gov/dts/shib/shib121304.html> and <http://www.osha.gov/dts/shib/shib121304.pdf>.
3. Jackson LL. [2001]. Nonfatal occupational injuries and illnesses treated in hospital emergency departments--United States, 1998. MMWR 50(16):313.
4. Jackson LL. [2001]. Nonfatal occupational injuries and illnesses treated in hospital emergency departments in the United States. Injury Prevention 7(Suppl I):i21-i26.

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Larry B. Jaycox, Ph.D.</b> (Retired from NIOSH 199?)		Research Chemist Tel: (513) 841-4241 ; E-mail: <a href="mailto:larry.jaycox@cdc.gov">larry.jaycox@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Massachusetts, Amherst, MA.	Ph.D.	1973	Analytical Chemistry (some Computer Science)
Southampton College of Long Island University, Southampton, N.Y.	B.A.	1968	Physical Science

Positions

1991 – 2001(?) Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Analytical Research and Development Branch, Cincinnati, Ohio 45226

1989 - 1991 Research Chemist, Aircraft Engine Division of General Electric performing analytical support and method development to jet engine and turbine research.

1986 – 1989 Owner and manager of Merry Go Round Stained Glass, providing sales and service to stained glass artisans, builders and architects. Taught classes in stained glass.

1973 – 1986 Research Chemist for the Procter & Gamble Company providing method development and analytical support in paper products, beverage products, and environmental safety.

Other experience and professional memberships

- American Chemical Society
- Sigma Xi

Peer-reviewed publications (most recent listed)

1. Development of a Versatile Method for the Detection of Nicotine in Air. S.M. Pendergrass, A.M. Krake, L.B. Jaycox, publication in *AIHA Journal*, 61:469-472 (2000).
2. Nicotine. S.M. Pendergrass, L.B. Jaycox, *Method 2551 Nicotine, NIOSH Manual of Analytical Methods, Fourth Edition, Second Supplement*.
3. Determination of Total Sulfur Compounds and Benzothiazole in Asphalt Fume Samples by Gas Chromatography with Sulfur Chemiluminescence Detection. L.B. Jaycox and L.D. Olsen. *AOEH, Vol. 15(9), 695-704*, (2000).
4. Benzothiazole in Asphalt Fume. L.B. Jaycox, *Method 2550 Benzothiazole in Asphalt Fume, NIOSH Manual of Analytical Methods, Fourth Edition, Second Supplement*.
5. Decabromodiphenyl Oxide. L.B. Jaycox. *Method for NIOSH NMAM in peer review*.
6. 1-Nitropyrene in Diesel Particulates. L.B. Jaycox. *Method for NIOSH NMAM in peer review*.
7. Thiophanate-Methyl in Air. L.B. Jaycox and R.N. Andrews. *Method for NIOSH NMAM in peer review*.
8. Fungicides in Handwash. L.B. Jaycox and R.N. Andrews. *Method for NIOSH NMAM in peer review*.
9. Fungicides on Dermal Patches. R.N. Andrews and L.B. Jaycox. *Method for NIOSH NMAM in peer review*.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Eugene R. Kennedy, Ph.D.</b>		Title Research Physical Science Administrator Tel: (513) 841-4392; E-mail: erk1@cdc.gov	
EDUCATION/TRAINING:			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
College of Steubenville, Steubenville, Ohio University of Cincinnati, Cincinnati, Ohio	B.A. Ph.D.	1970 1975	Chemistry Organic Chemistry

Positions

1976-1990	Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH.
1990-2002	Supervisory Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH.
2002-present	Research Physical Science Administrator Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

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
- Editorial Board Member, American Industrial Hygiene Association Journal, 1994-2003
- Air Sampling Procedures Committee, American Conference of Governmental Industrial Hygienists - 1988 - 1992

Peer-reviewed publications (most recent listed)

1. Grote AA, Kennedy ER [2002] Workplace Monitoring for Volatile Organic Compounds Using Thermal Desorption-Gas Chromatography-Mass Spectrometry. J. Environ. Monitoring, , 4:679-684.
2. Song R, Kennedy ER, Bartley DL [2001] Uniformity Test of Bias When the Reference Value Contains Experimental Error. Anal Chem 73:310-314.
3. Smith JP, Bartley DL, and Kennedy ER [1998] Laboratory Investigation of Mass Stability of Inhalable Samplers and Filters. Am Ind Hyg Assoc J 59:582-585.
4. Kennedy ER, Fishbach TJ, Song R, Eller PM, and Shulman SA [1995] Guidelines for Air Sampling and Analytical Method Development and Evaluation. Washington, DC: 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. 95-117.
5. Kennedy ER, Lin JJ, Reynolds J, and Perkins JB [1997] A sampling and analytical method for the simultaneous determination of multiple organonitrogen pesticides in air. Am Ind Hyg Assoc J 58:720-725.

**BIOGRAPHICAL SKETCH**

17 October 2006

<b>James S. Kesner, Ph.D.</b>		Research Biologist Tel: (513) 533.8208; E-mail: <a href="mailto:JKesner@cdc.gov">JKesner@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Illinois, Urbana, IL	B.S.	1974	Agricultural Science
Michigan State University, E. Lansing, MI	M.S.	1976	Endocrinology
Michigan State University, E. Lansing, MI	Ph.D.	1981	Reproductive Endocrinology

Positions

- 1981-1982: University of Pittsburgh, Pittsburgh, PA; Post-Doc; Reproductive Neuroendocrinology  
 1982-1985: University of Texas, Houston, TX; Post-Doc; Reproductive Neuroendocrinology  
 1985-1988: United States Department of Agriculture, Athens, GA; Research Associate  
 1988-present: National Institute for Occupational Safety and Health, Cincinnati, OH; Project Officer, Research Biologist, Director of NIOSH Reproductive Endocrinology Laboratory

Selected Lectureships

- Field Studies on Female Reproduction & Animal Studies in Female Reproduction. Nordic Institute for Advanced Training in Occupational Health (NIVA) course entitled "The effect of chemical, physical, and biological workplace factors on male and female fertility", Gentofte, Denmark, June, 1991
- Urinary endocrine analyses to evaluate menstrual function in female populations exposed to occupational and Environmental Hazards. Russian Scientific & Practical Conference entitled Medical, social, and legal aspects of maternity and infancy protection. Yekaterinburg, Russia, October 29, 1992
- Time-resolved fluoroimmunoassays to urinary analytes for assessing reproductive potential of women exposed to occupational hazards. The Ernst Knobil Symposium, Pittsburgh, PA, June 11, 1994.
- Non-radioisotopic methods of measuring endocrine parameters of menstrual function in women exposed to occupational or environmental hazards. First North Caucasus Congress of Obstetricians and Gynecologists, Rostov-on-Don, Russia, September 8, 1994
- Measuring endocrine profiles of women in Field Studies. International Symposium on Environment, Lifestyle and Fertility, Aarhus, Denmark, December 9, 1997
- Assessing Menstrual Cycle Endocrine Endpoints as Indices of Infertility: Application to Nickel Workers. 6<sup>th</sup> International Nickel Conference: Ecologic, toxicologic, & human health issues associated with the mining, refining, & production of nickel & companion elements, Murmansk, Russia, September 5, 2002
- Biological evaluation of menstrual cycle function in women exposed to occupational and environmental hazards. International Congress on the Prevention of Occupational and Environmental Disorders of Reproductive Health, Volgograd, Russia, June 30, 2004.

Awards

- Nominated for CDC International Award for "extraordinary time & effort to disseminate scientific OSH information between researchers from the West & from countries from the former Soviet Union." 1994
- CDC Special Act or Service Award for "...developing novel methodologies for reproduction monitoring in the first of a series of studies of reproductive disorders in female flight attendants & teachers." 1996
- Federal Employee Suggestion #97012 to create a mechanism for federal researchers to accept outside research funds; adopted as a cost-effective idea in 1998.
- CDC On-The-Spot Award for "...extraordinary effort and dedication to the IMHOTEP minority student mentoring program." August 10, 1998. Mentor and on selection committee from 1994-2003
- CDC EPMS Performance Awards yearly for 1989-present.

Adjunct Appointments, Committees, & Advisory Boards

- Volunteer Assistant Professor, Department of Environmental Health, University of Cincinnati; 1994 - present.
- Member, DHHS/EPA National Children's Study Fertility & Early Pregnancy Working Group; 2001-present.
- Member of the International Expert Panel on Reproductive Health Issues Associated with Exposure to the Port Colborne Chemicals of Concern (Cobalt, Nickel, Copper & Arsenic); 2002-2006.
- Member of NIOSH NORA team for Fertility & Pregnancy Abnormalities; 2002-2005.
- Member of Center for the Evaluation of Risks to Human Reproduction (CERHR) Expert Panel to prepare reports on the Reproductive and Developmental Toxicity of soy formula and genistein; 2005-2006.

#### Research Publications from Recent Years and Other Selected Publications

1. **Kesner JS**, Wright DM, Schrader SM, Chin NW, Krieg EF Jr. Methods of monitoring menstrual function in field studies: efficacy of methods. *Reprod Toxicol* 6:385-400, 1992
2. **Kesner JS**, Knecht EA, Krieg EF Jr. Time-resolved immunofluorometric assays for urinary luteinizing hormone and follicle stimulating hormone. *Analytica Chimica Acta* 285:13-22, 1994
3. **Kesner JS**, Knecht EA, Krieg EF Jr, Barnard G, Mikola H, Kohen F, Gani MM, Coley J. Validation of time-resolved fluoroimmunoassays for urinary estrone 3-glucuronide and pregnanediol 3-glucuronide. *Steroids* 58:205-11, 1994
4. **Kesner JS**. Addressing the threat of occupational reproductive toxicity in Russia. *Reprod Toxicol* 8:1-3, 1994
5. **Kesner JS**, Knecht EA, Krieg, EF Jr. Stability of urinary biomarkers of female reproductive hormones stored under various conditions. *Reprod Toxicol* 9:239-44, 1995
6. Baird DD, McConnaughey DR, Weinberg CR, Musey PI, Collins DC, **Kesner JS**, Knecht EA, Wilcox AJ. Application of a method for estimating day of ovulation using urinary estrogen and progesterone metabolites. *Epidemiology* 6:547-50, 1995
7. Scialli AR, Swan SH, Amler RW, Baird DD, Eskenazi B, Gist G, Hatch MC, **Kesner JS**, Lemasters GK, Marcus M, Paul ME, Schulte P, Taylor Z, Wilcox AJ, Zahniser C. Assessment of reproductive disorders and birth defects in communities near hazardous chemical sites. II. Female reproductive disorders. *Reprod Toxicol* 11:231-42, 1997
8. **Kesner JS**, Knecht EA, Krieg EF Jr, Wilcox AJ, O'Connor JF. Detecting preovulatory luteinizing hormone surges in urine. *Human Reprod* 13:15-21, 1998
9. Baird DD, Weinberg CR, Zhou H, Kamel F, McConnaughey DR, **Kesner JS**, Wilcox AJ. Preimplantation urinary hormone profiles and the probability of conception in healthy women. *Fertil Steril* 71:40-49, 1999
10. **Kesner JS**, Knecht EA, Krieg EF Jr. Measuring endocrine profiles of women in field studies. *Scand J Work Environ Health* 25 Suppl 1:17-9, 1999
11. Krieg EF Jr, **Kesner JS**, Knecht EA. An algorithm for detecting features of the hormone profiles of the human menstrual cycle. *Computers in Biol Med* 29:229-42, 1999
12. **Kesner JS**, Lynch DD, Schnorr TM, Schrader SM, Wess JA. The Effects of Workplace Hazards on Female Reproductive Health - DHHS (NIOSH) Publication No. 99-104, 1999
13. Garry VF, Burroughs B, Tarone R, **Kesner JS**. Herbicides and adjuvants: an evolving view. *Toxicol Ind Health* 15:159-67, 1999
14. Dunson DB, Weinberg CR, Baird DD, **Kesner JS**, Wilcox, AJ. Assessing human fertility using several markers of ovulation. *Stat Med* 20:965-78, 2001
15. Garry VF, Tarone RE, Kirsch IR, Abdallah JM, Lombardi DP, Long LK, Burroughs BL, Barr DB, **Kesner JS**. Biomarker correlations of urinary 2,4-D levels in foresters: genomic instability and endocrine disruption. *Environ Health Perspect* 109:495-500, 2001
16. Reutman SR, Lemasters GK, Knecht EA, Shukla R, Lockey JE, Burroughs GE, Meyer D, **Kesner JS**. The Potential for Endocrine Disruption by Exposure to Fuels and Solvents. *Environ Health Perspect* 110:805-11, 2002
17. Reutman SR, Lemasters GK, **Kesner JS**, Krieg EF Jr, Knecht EA, Shukla R, Lockey JE. Urinary reproductive hormone differences between African American and Caucasian women of reproductive age. *Fertil Steril* 78:383-91, 2002
18. 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* 44:947-55, 2002
19. **Kesner JS**, Knecht EA, Krieg EF Jr. Assessing the Endocrine Effects of Occupational Exposures on Menstrual Cycle Function. In: Izmerov NF, Zaitseva NV, May IV, Shur PZ, Brazhkin AV, Khoroshavin VA (eds) *Environmental Health. Russian Health Ministry Scientific & Development Centre for Environmental Safety, Perm, Russia*, pp 194-7 [85-8], 2003
20. Wilcox AJ, Baird DD, Weinberg CR, Dunson D, McConnaughey DR, **Kesner JS**. On the frequency of intercourse around ovulation: Evidence for biological influences. *Human Reprod*, 19:1539-43, 2004
21. Baird DD, **Kesner JS**, Dunson DB. Luteinizing Hormone in premenopausal women may stimulate uterine leiomyomata development. *J Soc Gynecol Invest* 13:130-5, 2006

22. Rozman KK, Bhatia J, Calafat AM, Chambers C, Culty M, Etzel RA, Flaws JA, Hansen DK, Hoyer PB, Jeffery EH, **Kesner JS**, Marty S, Thomas JA, Umbach D. NTP-CERHR expert panel report on the reproductive and developmental toxicity of soy formula. *Birth Defects Res B Dev Reprod Toxicol.* 77:280-397, 2006
23. Rozman KK, **Kesner JS**, Calafat AM, Jeffery EH, Culty M, Bhatia J, Etzel RA, Marty S, Hansen DK, Flaws JA, Chambers C, Thomas JA, Hoyer PB, Umbach D. NTP-CERHR expert panel report on the reproductive and developmental toxicity of genistein. *Birth Defects Research* (Submitted)

**BIOGRAPHICAL SKETCH**

03-31-2006

<b>Gregory John Kullman, Ph.D.</b>		Research Industrial Hygienist Tel: (304) 285 5959 E-mail: gkullman@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR	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

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.
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*, 5<sup>th</sup> Edition, Volume 1, John Wiley & Sons, Robert L Harris Ed. 2000.



**BIOGRAPHICAL SKETCH**

18-Oct-2006

<b>Larry Layne, M.A.</b>		Statistician Tel: (304) 285-6008; E-mail: LLayne@cdc.gov	
EDUCATION/TRAINING:			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR</b>	<b>FIELD OF STUDY</b>
West Virginia University, Morgantown, WV	B.A.	1987	Sociology
West Virginia University, Morgantown, WV	M.A.	1990	Applied Social Research

Positions

1991-present Statistician, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV

Publications

1. Layne LA [2004]. Occupational Injury Mortality Surveillance in the United States: An Examination of Census Counts From Two Different Surveillance Systems, 1992-1997, *Am J Ind Med* 45(1):1-13.
2. Layne LA, Pollack KM [2004]. Nonfatal Occupational Injuries From Slips, Trips, and Falls Among Older Workers Treated in Hospital Emergency Departments United States 1998, *Am J Ind Med* 46:32-41.
3. Layne LA, Landen DD [1997]. A descriptive analysis of nonfatal occupational injuries to older workers, using a national probability sample of hospital emergency departments. *Journal of Occupational and Environmental Medicine* 39(9):855-865.
4. Layne LA, Castillo DN, Stout N, Cutlip P [1994]. Adolescent occupational injuries requiring hospital emergency department treatment: a nationally representative sample. *Am J Public Health* 84(4): 657-660.
5. Goldcamp EM, Hendricks KJ, Layne LA, Myers JR [2006]. Nonfatal injuries to household youth on racial minority-operated farms in the U.S., 2000. *JASH* 12(4): 315-324.
6. Hendricks K, Layne L, Goldcamp M, Myers J [2005]. Injuries to youth living on U.S. farms in 2001 with comparison to 1998. *Jn Agromedicine* 10(4): 19-26.
7. Hendricks K, Myers J, Layne L, Goldcamp M [2005]. Household youth on minority operated farms in the United States 2000: Exposures to and injuries from work, horses, ATVs and tractors. *J Safety Res* 36:149-157.
8. Henneberger PK, Metayer C, Layne LA, Althouse R [2000]. Nonfatal work-related inhalations: Surveillance data from hospital emergency departments, 1995-1996, *Am J Ind Med* 38(2):140-148.
9. Hendricks K, Layne L [1999]. Adolescent occupational injuries in the fast food industry. *Journal of Occupational and Environmental Medicine* 41(12):1146-1153.
10. Chen GX, Layne LA [1999]. Where African-American women work and the nonfatal work-related injuries they experienced in the U.S. in 1996, compared to women of other races. *Am J Ind Med Supplement* 1:34-36.
11. Sorock GS, Smith GS, Reeve GR, Dement J, Stout N, Layne L, Pastula ST [1997]. Three perspectives on work-related injury surveillance systems. *Am J Ind Med* 32(2):116-128.
12. Knight EB, Castillo DN, Layne LA [1995]. A detailed analysis of work-related injury among youth treated in emergency departments. *Am J Ind Med* 27: 793-805.
13. Castillo DN, Landen DD, Layne LA [1994]. Occupational injury deaths of 16- and 17-year-olds in the United States. *Am J Public Health* 84(4): 646-649.

**BIOGRAPHICAL SKETCH**

03-31-2006

<b>Kenneth D. Linch, M.S.</b>		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.

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.

**BIOGRAPHICAL SKETCH**

10-19-2006

<b>Jennifer M. Lincoln, Ph.D.</b>		Occupational Safety and Health Specialist, Tel: 907-271-2383; E-mail: JLincoln@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Indiana State University, Terre Haute, Indiana	B.S.	1991	Environmental Science
University of Alaska Anchorage, Anchorage, Alaska	M.S.	1997	Environmental Quality Science
Johns Hopkins University, Baltimore Maryland	Ph.D.	2006	Health Policy Management

Positions

Sept 1998–present: Occupational Safety & Health Specialist IV, NIOSH, Alaska Field Station, Anchorage, AK

Serves as project officer for the Injury Prevention in the Commercial Fishing Industry Project. Develops intervention programs, deck models, and industry publications to transfer research findings to the industry. Recognized as one of the country's leading authorities on fishing vessel safety research. Dr. Lincoln has made numerous contributions to fishing vessel safety and is an active participant in industry safety meetings. She is consulted regularly by the USCG and most recently assisted in restructuring the US Coast Guard national surveillance system with an injury severity scale.

Jan 1992-Aug 1998: Occupational Safety & Health Spec II & III, NIOSH, Alaska Field Station, Anchorage, AK

Served as the database manager for the Alaska Occupational Injury Surveillance System (AOISS).

Honors and Other Achievements

Selected for NIOSH Long Term Training. Attended Johns Hopkins University 2002-2006.

Special Recognition Award: 2003 Alaska Governor's Safety and Health Conference

USPHS Commendation Medal, 1999. Presented for work in commercial fishing safety.

Movers and Shakers Award, American Society of Safety Engineers, Alaska Chapter, 1999

Award of Excellence, Alaska Area Native Health Service, Injury Prevention Program, 1997

Certified Safety Professional, 1997

Injury Prevention Specialist Fellowship Class of 1996

Patents

"Electro Hydraulic Emergency Stop Device for a Winch", co-inventor, Invention Report submitted Nov. 2005, Centers for Disease Control reference #I-008-06.

Selected peer-reviewed publications or manuscripts

Lincoln, J. & Conway, G. Commercial fishing fatalities in Alaska – Risk factors and prevention strategies. Current Intelligence Bulletin 58 (DHHS (NIOSH) publication No. 97-163). Washington D.C.: National Institute for Occupational Safety and Health. 1997.

Lincoln, J. M., & Conway, G. A. (1999). Preventing commercial fishing deaths in Alaska. *Occupational & Environmental Medicine*, 56(10), 691-695.

Husberg BJ, Lincoln JM, Conway GA. On-Deck Dangers in the Alaskan Commercial Fishing Industry. Proceedings - U.S. Coast Guard Journal of Safety at Sea, 58 (2), pages 23-24. April 2001.

Backus AS, Brochu PJ, Lincoln JM, Bensyl DM, Ciampa JR, Smith TJ, Understanding and Preventing Lobsterman Entanglement: A Preliminary Study" Marine Safety Council, Proceedings April-June 2001, Vol. 58, Number 2, pg. 50-53.

Lincoln JM, Husberg BJ, Conway GA. Improving Safety in the Alaskan Commercial Fishing Industry. International Journal of Circumpolar Health. Volume 60, pages 705-713. December 2001.

Thomas TK, Lincoln JM, Husberg BJ, Conway GA. Is it Safe on Deck? Fatal and Non-Fatal Workplace Injuries Among Alaskan Commercial Fishermen. American Journal of Industrial Medicine. Volume 40, pages 693-702. December 2001.

Conway, G., Lincoln, J., Hudson, D., Bensyl, D., Husberg, B., & Manwaring, J. Surveillance and prevention of occupational injuries in Alaska: A decade of progress, 1990-1999. (DHHS (NIOSH) Publication No. 2002-115). Cincinnati, OH: National Institute for Occupational Safety and Health. 2002.

NIOSH. Danger of Entanglement During Lobstering, Workplace Solutions from the National Institute for Occupational Safety and Health. (DHHS (NIOSH) Publication No. 2005-137). Cincinnati, OH: National Institute for Occupational Safety and Health. August 2005.

Lincoln, J. (2006). Fresh Seafood at a Price: Factors Associated with Surviving Fishing Vessel Sinkings in Alaska, 1992-2004. Unpublished doctoral dissertation, Johns Hopkins University, Baltimore, Maryland.

**BIOGRAPHICAL SKETCH** 6-15-2006

<b>Charles D. Lorberau, M.S.</b> (no longer with NIOSH)		Chemist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Purdue University, Lafayette, IN	M. S.	1983	Chemistry
University of Colorado, Denver CO	B. A.	1979	Not indicated

Positions

- 1985 – 2002 Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering, Cincinnati, OH
- 1979 – 1983 Teaching Assistant, Purdue University, Lafayette, IN
- 1979 Geologic Field Assistant (5 month period), U.S. Geological Survey, Denver CO
- 1978 Laboratory Research Assistant . (six month period), Johns-Manville Corp., Denver, CO.

Other experience and professional memberships

- American Chemical Society; Division of Analytical Chemistry, Division of Environmental Chemistry
- Phi Beta Kappa

Peer-reviewed publications (most recent listed)

1. Lorberau, C. D. (C. D. Lorberau and J. L. Pride) -- A Laboratory Comparison of Two Media for Use in the Assessment of Dermal Exposure to Pesticides – 2000
2. **Lorberau CD**, Abell MT [1995] [Methods used by the United States National Institute for Occupational Safety and Health to monitor crystalline silica](#), SCAND J WORK ENV HEA 21: 35-38 Suppl. 2 .
3. R. P. Streicher, E. R. Kennedy and C. D. Lorberau -- *Strategies for the Simultaneous Collection of Vapors and Aerosols with Emphasis on Isocyanate Sampling* - January 1994, ANALYST 119 (1): 89-97 JAN 1994
- 4.
5. **Lorberau, C. D.** (C. D. Lorberau) -- *Determination of Gaseous and Particulate Fluorides by Ion Chromatographic Analysis* – 1993
6. **Lorberau, C. D.** (C. D. Lorberau) -- *Investigation of the Determination of Respirable Quartz on Filter Media Using Fourier Transform Infrared Spectrophotometry* - June 1990
7. **Lorberau, C. D.** (C. D. Lorberau, T. P. Carsey, T. J. Fischbach and K. J. Mulligan) -- *Evaluation of Direct-on-Filter Methods for the Determination of Respirable Quartz* - January 1990
8. **Carsey, T. P.** (T. P. Carsey, S. A. Shulman and C. D. Lorberau) -- *An Investigation of the performance of the 10-mm nylon cyclone* - 1987

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Barbara MacKenzie</b>		Research Biologist Tel: (513) 533-8132; E-mail: bmackenzie@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
University of Cincinnati Cincinnati, OH	A.S.	1976	Vet. Tech
University of Cincinnati Cincinnati, OH	B.S.	1981	Natural Science Biology – Major Chemistry - Minor

Positions

1978 – present Research Biologist National Institute for Occupational Safety and Health, Centers for Disease Control and Prevention, Cincinnati Ohio

Other experience and professional memberships

- American Association of Clinical Chemistry
- American Society of Clinical Laboratory Science

Peer-reviewed publications (most recent listed)

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. R E Biagini, B A MacKenzie, D L Sammons, S A Robertson, J P Smith and R G Hamilton. Latex-Specific IgE Serology: Performance characteristics of the IMMULITE® 2000 3gAllergy™ compared with skin testing. *Annals of Allergy, Asthma, & Immunology*, 97:196-202, 2006
3. LE Pinkerton, EH Page, MR Petersen, EJ Esswein, DM Lewis, RE Biagini, TA Bledsoe, BA MacKenzie, EM Ward. Evaluation of latex-specific IgG as a marker of exposure to natural rubber latex among hospital employees, Submitted, *Annals of Allergy, Asthma, & Immunology*, 2006
4. 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
5. 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
6. 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.
7. 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.
8. 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
9. 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.
10. Biagini, RE, Schlottman, 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.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Jan C. Manwaring, R.E.H.S, M.P.H.</b>		Occupational Safety and Health Specialist Tel: (907) 271-2598; E-mail: JManwaring@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Brigham Young University, Provo, UT	B.S.	1969-1976	Environmental Health
University of Hawaii, Honolulu, HI	MP.H.	1997-1999	Health Services Admin. & Planning

Positions

- 1991-present Senior Environmental and Occupational Safety and Health Specialist, Centers for Disease Control and Prevention (CDC), National Institute for Occupational Safety and Health (NIOSH), Alaska Field Station, Anchorage, Alaska.
- 1986-1991 Research Industrial Hygienist, CDC, NIOSH, Division of Safety Research, Morgantown, West Virginia.
- 1984-1986 Environmental Health Specialist, CDC, National Center for Environmental Health, Miami, Florida.
- 1983-1984 Chief Environmental Health Specialist, Indian Health Service, Chinle Service Unit, Chinle, Arizona.
- 1980-1983 Environmental Health Specialist, North Central District Health Department, Grangeville, Idaho.
- 1978-1980 Chief Environmental Health Specialist, Uintah Basin District Health Department, Roosevelt, Utah.
- 1977-1978 Environmental Health Specialist, Southwestern Utah District Health Department, Kanab, Utah.

Other experience and professional memberships

American Society of Safety Engineers  
National Environmental Health Association  
Commissioned Officers Association of the U.S. Public Health Service  
Reserve Officers Association  
Environmental Health and Safety Advisor, Alaska Disaster Medical Assistance Team,  
Deputy Team Leader, Applied Public Health Team 2, USPHS, Office of Force Readiness and Deployment

Peer-reviewed co-authored publications (most recent listed)

1. CDC, Morbidity and Mortality Weekly Report, October 14, 2005 / 54(40);1018-1021, Surveillance for Illness and Injury After Hurricane Katrina --- New Orleans, Louisiana, September 8--25, 2005.
2. Conway GA, Hill A, Martin S, Mode NA, Berman MD, Bensyl DM, Manwaring JC, Moran KA [2004]. Alaska Air Carrier Operator and Pilot Safety Practices and Attitudes: A Statewide Survey. Aviation, Space, and Environmental Medicine, November 2004.
3. Conway GA, Lincoln JM, Hudson DS, Bensyl DM, Husberg BJ, Manwaring JC [2002]. Surveillance and Prevention of Occupational Injuries in Alaska: A Decade of Progress, 1990-1999. NIOSH Publication No. 2002-15, May 2002.
4. Thomas TK, Bensyl DM, Manwaring JC, Conway GA. Controlled flight into terrain accidents among commuter and air taxi operators in Alaska. Aviation Space & Environmental Medicine 2000;71(11):1098-103.



**BIOGRAPHICAL SKETCH**

10-17-2006

<b>Suzanne Marsh, M.P.A.</b>		Statistician (Health) Tel: (304) 285-6009; E-mail: smm2@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Virginia Tech Blacksburg, VA	B.S.	1985-1989	Statistician
West Virginia University, Morgantown, WV	M.P.A	2003-2006	Public Administration

Positions

1989-present Statistician (Health), Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV

Peer-reviewed publications (most recent listed)

1. Driscoll T, Marsh S, McNoe B, Langley J, Stout N, Feyer A-M, Williamson A. Comparison of Fatalities from Work Related Motor Vehicle Traffic Incidents in Australia, New Zealand, and the United States. *Injury Prevention* 2005; 11: 294-299.
2. Biddle EA, Marsh SM. Comparison of Two Fatal Occupational Injury Surveillance Systems in the United States. *Journal of Safety Research* 2002; 33(3):337-354.
3. Hartley D, Biddle EA, Grosch JW, Marsh SM. The Burden of Occupational Fatal Injury for Older Workers in the United States. National Safety Council *Injury Insights* June/July 2002.
4. Chen GX, Jenkins EL, Marsh SM, Johnston JJ. Work-related and Non-Work-related Injury Deaths in the U.S.: A Comparative Study. *Human and Ecological Risk Assessment* 2001; 7(7):1859-1868.
5. Collins JW, Landen DD, Kisner SM, Johnston JJ, Chin SF, Kennedy RD. Fatal Occupational Injuries Associated with Forklifts, United States, 1980-1994. *Amer J Indust Med* 1999; 36(5):504-512.
6. Kisner SM, Pratt SG. Occupational Injury Fatalities among Older Workers in the United States, 1980-1994. *Amer J Indust Med Supplement* 1999;1:24-25.
7. Myers JR, Kisner SM, Fosbroke DE. Lifetime Risk of Fatal Occupational Injuries within Industries, by Occupation, Gender, and Race. *Human and Ecological Risk Assessment* 1998; 4(6):1291-1307.
8. Biddle EA, Kisner SM. Denominator Effects on Traumatic Occupational Fatality Incidence Rates. *MetLife Statistical Bulletin* Jan-Mar 1998; 79(1):28-36.
9. Fosbroke DE, Kisner SM, Myers JR. Working Lifetime Risk of Occupational Fatal Injury. *Amer J Indust Med* 1997; 31:459-467.
10. Kisner SM, Pratt SG. Occupational Fatalities among Older Workers in the United States: 1980-1991. *J Occup Environ Med* 1997; 39(8):715-721.
11. Pratt SG, Kisner SM, Moore PH. Machinery-related Fatalities in the Construction Industry. *Amer J Indust Med* 1997; 32: 42-50.
12. Pratt SG, Kisner SM, Helmkamp JC. Machinery-related Occupational Fatalities in the United States, 1980-1989. *J Occup Environ Med* 1996; 38(1):70-76.
13. Robinson CF, Halperin WE, Alterman T, Braddee RW, Burnett CA, Fosbroke DE, Kisner SM, et al. Mortality Patterns among Construction Workers in the United States. *Occupational Medicine: State of the Art Reviews* 1995; 10(2):269-283.
14. Kisner SM, Fosbroke DE. Injury Hazards in the Construction Industry. *J Occup Environ Med* 1994; 36(2):137-143.
15. Jenkins EL, Layne LA, Kisner SM. Homicide in the Workplace: The U.S. Experience, 1980-1988. *AAOHN J* 1992; 40:215-218.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Eugene A. McKenzie, Jr., Ph.D.</b>		Research Safety Engineer	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR	FIELD OF STUDY
West Virginia University	BSME	1982-86	Mechanical Engineering
West Virginia University	MSME	1986-1990	Mechanical Engineering
West Virginia University	Ph.D.	1990-1998	Mechanical Engineering

Positions

Research Safety Engineer July 1999-present, National Institute for Occupational Safety and Health (NIOSH), Morgantown, WV. Responsibilities include: Proposing and conducting research in the area of traumatic occupational injury. Current projects include “New Technology to Increase ROPS Use on Tractors”, “Engineering Evaluation of fall-prevention technology for roof workers Guardrail Systems”, Commercialization of Cost Effective Rollover Protective Structures (CROPS) Design “, “Lock/Tag out, Jammed and Moving Machinery Controls”.

Visiting Assistant Professor Aug. 1998 – May 1999, West Virginia University Institute of Technology, MET and CE Departments, Montgomery, WV.

Other experience and professional memberships

Registered Professional Engineer WV (#14337) 1999- Present

Honorable Mention Award for Excellence in Technology Transfer, 2002, on AutoROPS from The Federal Laboratory Consortium Southeast Region

Peer-reviewed publications (most recent listed)

Etherton JR, McKenzie EA Jr, Lutz TJ, Cantis DM, Kau TY. [2004]. An Initial Farmer Evaluation of a NIOSH AutoROPS Prototype. International Journal of Industrial Ergonomics 34:155-165

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>R. Leroy Mickelsen, M.S., P.E.</b> (no longer with NIOSH)	Branch Chief		
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Iowa, Iowa City, IA	B.S.	1986-1987	Engineering
NC State University, Raleigh, NC	M.S.	1992-1996	Engineering

Positions

Supervisor, Section Chief, VI Billet	Cincinnati, OH	1997 - 2003
Industrial Hygiene Engineer, IV-V Billet	Cincinnati, OH	1990 - 1997
Chemical Engineer, IV Billet	Morgantown, WV	1987 - 1990

Honors

NSPE, CDC Engineer of the year award	2000
NSPE Federal Engineer of the year, Top Ten Finalist	2000
PHS, CDC Engineer of the year award	2000
Innovation in American Government Award, Finalist	1999
Public Health Service Unit Commendation	1999, 1997, (2)1993, 1989
Public Health Service Outstanding Unit Citation	1998, 1997
Public Health Service Commendation Medal	1995

Other experience and professional memberships

Management position	1997 - Present
Professional Engineer Licensure	1994 - Present
Assimilation into the Regular Corps	1993
Instructor for NIOSH technical courses	1993 - 1996
Long-term training candidate, earned M.S.Ch.E.	1986 - 1987
Seventeen professional peer-reviewed publications (Attachment)	1983 - 1999

Peer-reviewed publications (most recent listed)

Heitbrink WA, Earnest G.S., **Mickelsen** RL, Mead KR, D'Arcy JB [1999]. Evaluation of Leakage from a Metal Machining Center Using Tracer Gas Methods: A Case Study. American Industrial Hygiene Association Journal 60(6):785-788, November/December 1999.

**Mickelsen**, R.L., K.R. Mead, and T.E. Brumagin: Evaluating Engineering Controls During Asphalt Paving Using A Portable Tracer Gas Method. American Journal of Industrial Medicine Supplement 1:77-79, 1999.

Mead, K.R., R.L. **Mickelsen**, T.E. Brumagin: Factory Performance evaluations of Engineering Controls For Asphalt Paving equipment. American Industrial Hygiene Association Journal Vol. 14(8): 565-573, 1999.

Mead, K.R., R.L. **Mickelsen**, T.E. Brumagin. Engineering Controls for Asphalt Paving Equipment: Paving the Path to Progress. The Synergist 8(9):30-31. (ECTB No. 208-05j), 1997.

Earnest, G.S., R.L. **Mickelsen**, J.B. McCammon, and D.M. O'Brien: Carbon Monoxide Poisonings from Small, Gasoline-Powered, Internal Combustion Engines: Just What is a "Well-Ventilated Area?" American Industrial Hygiene Association Journal Vol. 58(11): 787-791, 1997.

**Mickelsen**, R.L. and W.M. Haag: Removing Lead-Based Paint from Steel Structures with Chemical Stripping. Journal of Protective Coatings and Linings Vol. 14(7): 22-29, July 1997.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>William J. Moorman, M.S.</b>		Research Biologist Tel: (513) 533-8275; E-mail: <a href="mailto:Wmoorman@cdc.gov">Wmoorman@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	B.S.	1960-1964	Biology
University of Cincinnati, Cincinnati, OH	M.S.	1969-1973	Environmental Health

Positions

1990-Present	Research Biologist, Reproductive Health Assessment Section, Biomonitoring and Health Assessment Branch, Division of Applied Research and Technology, National Institute for Occupational Safety and Health.
1978-1989	Chief, Chronic Toxicology Section, Division of Biomedical and Behavioral Sciences, National Institute for Occupational Safety and Health.
1971-1978	Research Biologist, Experimental Toxicology Branch, National Institute for Occupational Safety and Health. Team leader of the inhalation and cardiopulmonary laboratories.
1968-1971	Biologist, Chronic and Exploratory Toxicology Section, Group Leader of the Cardiopulmonary Unit, U.S. Environmental Protection Agency, National Air Pollution Control Administration,.

Other experience and professional memberships

- Academy of Kettering Fellows
- Sigma Xi and Research Society of America
- Chairman, Admissions Committee
- Respiratory Function Course Approval Committee
- Cincinnati Astronomical Society
- Friends of The Observatory
- U.S. Power Squadron S, AP, JN,
- NIOSH Occupational Lung Disease Planning Committee

Peer-reviewed publications (most recent listed)

1. Alterations in Rabbit Protein Expression following Lead Exposure as Analyzed by Two-Dimensional Gel Electrophoresis. Kanitz MH, Wirtzmann FA, Zhu H, Fultz CD, Skaggs SR, Moorman WJ, Savage RE. Electrophoresis, 20: 2977-2985, 1999
2. Predictive Animal Model for Spermatotoxic Effects Associated with Elevated Blood Lead. Moorman WJ, Skaggs SR, Clark JC, Turner TW, Sharpnack DD, Chapin RE, Schrader SM. Invited presentation at Lead Exposure, Reproductive Toxicology and Carcinogenicity WHO International Conference, Gargnano, Italy. Also Invited to present at Conrad P. Staub Memorial Lecture of Sigma Xi Research Society, Cincinnati, OH, November 17, 1999.
3. Prioritization of NTP Reproductive Toxicants for Field Studies. Moorman WJ, Ahlers HW, Chapin RE, Daston GP, Foster PMD, Kavlock RJ, Morawetz JS, Schnorr TM, Schrader SM. Reproductive Toxicology Vol 14.No. 4, 293-301 (2000)
4. Male Adolescent Exposure to Endocrine Disrupting Pesticides: Vinclozolin Exposure in Peripubertal Rabbits. Moorman WJ, Cheever KL, Skaggs SR, Clark JC, Turner TW, Marlow KL, Schrader SM. Andrologia 32, 285-293 (2000)

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Ernest S. Moyer, Ph.D.</b>		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 West Virginia University, Morgantown, WV	B.S. Ph.D.	1967 1970	Chemistry 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 9<sup>th</sup> 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 9<sup>th</sup> 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 9<sup>th</sup> 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.
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

10. 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.
11. 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.
12. 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.
13. 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.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>John R. Myers, M.S.</b>		Health Statistician Tel: (304) 285-6005; E-mail:JRMyers@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Delaware Valley College, Doylestown, PA	B.S.	1976-1980	Biology
West Virginia University, Morgantown, WV	M.S.	1980-1985	Forestry
West Virginia University, Morgantown, WV	Ph.D. (ABD)	1983-1987	Forestry

Positions

1987-present: Health Statistician, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV

Other experience and professional memberships

Member National Institute for Farm Safety

DSR representative to the Council of State and Territorial Epidemiologists Occupational Health Working Group developing uniform State occupational injury and illness surveillance guidelines.

DSR representative to the USDA NCERA-197 "Agricultural Safety and Health Research and Extension" committee, which is implementing a national agricultural safety and health agenda for Land Grant Universities within the US.

Peer-reviewed publications (most recent listed)

- Greife A, Halperin W, Groce D, O'Brien D, Pedersen D, Myers JR, Jenkins EL. [1995]. Hazard surveillance: its role in primary prevention of occupational disease and injury. *Appl. Occ. Environ. Hyg.*, 10(9):737-742.
- Myers JR, Fosbroke DE. [1995]. The Occupational Safety and Health Administration logging standard: what it means for forest managers. *Jour. Forestry*, 93(11):34-37.
- Myers JR, Hard DL. [1995]. Work-related fatalities in the agricultural production and services sectors, 1980 through 1989. *Amer. Jour. Occ. Med.*, 27(1):51-63.
- Myers JR, Snyder KA. [1995]. Roll-over protective structure use and the cost of retrofitting tractors in the United States, 1993. *Jour. Ag. Safety and Health*, 1(3):185-197.
- Fosbroke DE, Myers JR. [1996]. Logging safety and forest management education: a necessary link. *Jour. Forestry*, 94(7).
- Fosbroke DE, Kisner SM, Myers JR. [1997]. Working lifetime risk of occupational fatal injury. *Amer. Jour. Occ. Med.*, 31:459-467.
- Castillo DN, Hard DL, Myers JR, Pizatella T, Stout NA. [1998]. A national childhood agricultural injury prevention initiative. *Jour. Ag. Safety and Hlth.*, Special Issue (1):183-191.
- Myers JR, Hard DL, Snyder KA, Casini VC, Cianfrocco R, Fields J, Morton L. [1998]. Statistics and epidemiology of tractor fatalities—a historical perspective. *Jour. Ag. Safety and Hlth.*, 4(2):95-108.
- Myers JR, Kisner SM, Fosbroke DE. [1998]. Lifetime risk of fatal occupational injuries within industries, by occupation, gender, and race. *Human and Ecol. Risk Assess.*, 4(6): 1291-1307.
- Adekoya N, Myers JR. [1999]. Fatal agricultural work injuries from harmful substances or environments in the United States, 1992-1996. *Jour. Occ. and Environ. Med.*, 41(8):699-705.
- Castillo DN, Adekoya N, Myers JR. [1999]. Fatal work-related injuries in the agricultural production and services sectors among youth in the United States. *Jour. Agromedicine*, 6(3):27-42.
- Hard DL, Myers JR, Snyder KA, Casini VJ, Cianfrocco R, Fields J, Morton L. [1999]. Young workers at risk when working in agricultural production. *Amer. Jour. Occ. Med. Supp.*, 1:31-33.
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- Myers JR, Hard DL, Snyder KA, Casini VJ, Cianfrocco R, Fields J, Morton L. [1999]. Risks of fatal injuries to farm workers 55-years of age and older. *Amer. Jour. Occ. Med. Supp.*, 1:29-30.
- Myers JR, Adekoya N. [2001]. Fatal on-farm injuries among youth 16 to 19 years of age: 1982-1994. *Jour. Ag. Safety and Hlth.*, 7(2):101-112.
- Hard D L, Myers JR, Gerberich SG. [2002]. Traumatic injuries in agriculture. *Jour. Ag. Safety and Hlth.*,

8(1):51-65.

17. Keane KJ, Hornsby-Myers JL, Stephens JW, Harrison JC, Myers JR, Wallace W.E. [2002]. Characterization of hard metal dusts from sintering and detonation coating processes and comparative hydroxyl radical production. *Chem. Res. Toxicol*, 15(8):1010-1016.
18. Keane KJ, Martin J, Hornsby-Myers JL, Stephens JW, Harrison JC, Myers JR, Ong T, Wallace WE. [2002]. Particle characterization, free radical generation, and genotoxicity of hard metal and detonation coating dusts. *Ann. Occup. Hyg.*, 46, Supplement 1:402-405.
19. Giorcelli RJ, Hughes RE, Current RS, Myers JR. [2004]. Accuracy of a system for measuring three-dimensional torso kinematics during manual materials handling. *Jour. App. Biomechanics*, 20(2):185-194.
20. Goldcamp EM, Hendricks KJ, Myers JR [2004]. Farm fatalities to youth 1995-2000: a comparison by age groups. *Jour. of Safety Res.*, 35(2):151-157.
21. Hendricks KJ, Goldcamp EM, Myers JR. [2004]. On-farm falls among youth less than 20-years old in the US. *Jour. Ag. Safety and Hlth.*, 10(1):27-38.
22. Myers JR. [2004]. It's time for change, one way or another. *Jour. Ag. Safety and Hlth.*, 10(1):3-5.
23. Hendricks KJ, Myers JR, Layne LA, Goldcamp EM. [2005]. Household youth on minority operated farms in the United States, 2000: exposures to and injuries from work, horses, ATVs and tractors. *Jour. Safety Res.* 36(2):149-157.
24. Hendricks KJ, Layne LA, Goldcamp EM, Myers JR. [2005]. Injuries to youth living on U.S. farms in 2001 with comparison to 1998. *J Agromed* 10(4):19-26.
25. Goldcamp EM, Hendricks ME, Layne LA, Myers JR [2006]. Nonfatal injuries to household youth on racial minority –operated farms in the U.S., 2000. *Jour. Ag. Safety and Hlth.*, 12(4):315-324.
26. Goldcamp EM, Myers JR, Hendricks ME, Layne LA, Helmkamp J. [2006]. Nonfatal all-terrain vehicle-related injuries to youths living on farms in the United States, 2001. *Jour. Rural Hlth.* 22(4):308-313.



**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Charles Neumeister</b>		Research Chemist Tel: (513) 841-4356; E-mail: Cneumeister@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Georgetown College, Georgetown, KY	BS	1969	Chemistry Minor: Biology
Graduate level courses at Xavier University, Cincinnati, OH	6 credit hours	1976	Chemistry

Positions

- 1975 – Present    Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Chemical Exposure and Monitoring Branch, Cincinnati, OH
- 2000 – 2005      Technical Project Director of Comprehensive Analytical Support Contract, for same agency/division/branch
- 1972-1975        Research Chemist, Environmental Protection Agency
- 1969-1971        Soldier, U.S Army, NCO in charge of communications facility in Uijonbu, Korea

Peer-reviewed publications (most recent listed)

1. Neumeister, C. E. (C. E. Neumeister, L. D. Olsen and D. D. Dollberg) -- *Development of a Flow Injection Fluorescence Method for Estimation of Total Polycyclic Aromatic Hydrocarbons in Asphalt Fumes* – AIHA J 64 (5): 618-624 SEP-OCT 2003.
2. Toraason M, Hayden C, Marlow D, Rinehart R, Mathias P, Werren D, Olsen LD, **Neumeister CE**, Mathews ES, Cheever KL, Marlow KL, DeBord DG, Reid TM, DNA strand breaks, oxidative damage, and 1-OH pyrene in roofers with coal-tar pitch dust and/or fume exposure, INT ARCH OCC ENV HEA 75 (4): 279-279 APR 2002
3. Neumeister, CE; Olsen, L; Dollberg, DD {submitted 1998}. Flow-injection Spectrofluorometric Determination of Polycyclic Aromatic Compounds as a Chemical Class in Asphalt Fume. Anal. Chem
4. Wang, J; Ashley, K.; Kennedy G.; Neumeister, C (1997) Determination of Hexavalent Chromium, in Industrial Hygiene Samples using Ultrasonic Extraction and Flow Injection Analysis. Analyst 122, 1307-1312.
5. Neumeister, C; {1991}. Analysis of Urine to Monitor Exposures to Benzedine, 0-dianisidine, o-tolidine, and 4,4'- methylenedine. Appl. Occup. Environ. Hyg. 6,953-958.
6. Foley, D.; Neumeister, C.E.; Schoenborn, T.; [1991]. Minimizing Waste from Liquid chromatograph. Appl. Occup. Envir. Hyg. 6, 11.
7. Neumeister, C. [1987]. Environmental Sampling and Analysis for Zeranol. Am. Ind. Hyg. Assoc. J. 48,919-921.
8. Albrecht, W.N.; Burr, G.A., Neumeister, C.E.; [1989]. Sampling and analytical method for workplace monitoring of aspartame in air. Applied Industrial Hygiene4, 217.
9. Ahrenholz, S.; Neumeister, C.E.[1987]. Development and Use of a Sampling and Analytical Method for Azodicarbonamide. Am. Ind. Hyg. Assoc. J. 48, 442-446.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Richard W. Niemeier, Ph.D.</b>		Senior Scientist, Toxicologist Tel: (513) 533-8388; E-mail: RNiemeier@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
Villa Madonna College, Covington, KY	A.B.	1967	Biology, Chemistry
University of Cincinnati, Cincinnati, OH	M.S.	1969	Civil (Env. Hlth) Engineering
University of Cincinnati, Cincinnati, OH	Ph.D.	1973	Physiology, Env. Hlth, And Toxicology
University of Cincinnati, Cincinnati, OH	Post-Doc	1974-1975	Inhalation Toxicology
University of South Florida, Tampa, FL	MPH (candidate)	1999-	Public Health

Positions

1995 - present	Senior Scientist, Education and Information Division (EID), O.D., NIOSH
1994 - 1995	Acting Dir., Div of Training and Manpower Development and EID
1990 - 1995	Dir, Div of Standards Development and Technology Transfer (DSDTT)
1988 - 1990	Acting Director, DSDTT
1986 - 1988	Deputy Director, DSDTT
1976 - 1986	Chief, Acute and Subchronic Toxicology Section, Experimental Toxicology Branch, Division of Biomedical and Behavioral Sciences
1976 - 1996	Adjunct Asst Professor, College of Med., Dept. of Env. Hlth, Univ. Cinti
1975 - 1976	Assistant Professor, College of Medicine, Dept. of Env. Hlth, Univ. Cinti
1972 - 1973	Research Assistant, College of Medicine, Dept. of Env. Hlth, Univ. Cinti
1972 - 1973	Lecturer, Anat & Phys, Dept. of Biology, Edgecliffe College, Cinti, OH
1967 - 1968	Research Assist, Dept. of Metab. Res., General Hospital, Univ. Cinti.
1966 - 1967	Analytical Chemist, National Lead Company of Ohio, A.E.C., Fernald, OH

Other experience and professional memberships

2006 - present	Technical Expert to Department of Homeland Security, Chemical Security Analysis Center (CSAC) Edgewood Area of Aberdeen Proving Ground, MD for Chemical Threat Knowledge Management System (DHS, FBI, DoD Interagency Group)
2006 - present	World Health Organization / International Programme on Chemical Safety, Expert Consultation to Review Opportunities to Assist Implementation of the Global Harmonization System, Lodz, Poland, April 2006.
2005 - 2006	Co-chair Chemical Threat Prioritization Working Group, Weapons of Mass Destruction, Medical Countermeasures (WMD MCM) Threat Prioritization Working Group, DHS, DHHS and DOD, Assistant Secretary Level, National Science and Technology Council, Steering and Integration Group.
2005 - present	NIOSH Program Portfolio/Emergency Preparedness Cross-Sector steering committee
2005 - present	Deputy Manager for Silica Toolkit, WHO Activity Area 3 Structure of Global Collaborating Centre Network Work Plan 2006-2011
2004 - present	Cincinnati Emergency Response Regional Consortium - EPA National Homeland Security Research Center, NIOSH, OSHA, FDA, USPS, FBI, DHS, and City of Cincinnati Fire and Public Health Departments
2004 - present	Asphalt Paving and Asphalt Roofing Environmental Councils (AREC and APEC), External Science Advisory Committees (Asphalt Institute, American Petroleum Institute)
2004 - present	National Technology Alliance - Chemical Biological and Radiological Technology Alliance (CBRTA) Alliance Advisory Group (AAG) supported by the National Imagery and Mapping Agency (NIMA)
2004 - 2005	U.S. Control Banding Scientific Working Group (AIHA, ACGIH, OSHA, NIOSH, NSC, IOHA, trade unions, American Chemical Council, Pfizer Inc., Organization Resource Counselors, EPA)
2004 - present	Member of International Technical Group on Control Banding (Risk Management Toolbox) chaired by WHO/ILO

- 2003 - present Environmental Technology Verification Water Security Chemical Technical Panel as part of the National Sanitation Foundation for counter-terrorism activities against water threats
- 2002 - present FBI Scientific Working Group on the Forensic Analysis of Chemical Terrorism (SWGFACT); June 2005 chair, Chemical Information Subcommittee and member of Executive Committee
- 2002 - present Interstate Chemical Terrorism Group
- 2002 - present NIOSH/National Personal Protective Technology Laboratory Internal Peer Review Committee for Chemical Biological Radionuclide and Nuclear (CBRN) Respirator Certification Program
- 2000- present Advisory Board for electronic Library for Construction Occupational Safety and Health (eLCOSH), Center to Protect Workers Rights
- 1996 - 2000 Chair, Institute's Senior Internet Policy Team
- 1996 - present Member of the National Advisory Group (FACA) on the establishment of Acute Exposure Guideline Levels (AEGs) for Hazardous Substances by the Administrator of EPA
- 1996 - 2001 Steering Committee for the World Health Organization, International Program on Chemical Safety to advise on the effort of International Chemical Safety Cards
- 1994 - 1996 Organizing and Steering Committee for the World Health Organization, International Program on Chemical Safety to advise on the effort of Concise International Chemical Assessment Documents (CICADs).
- 1991 - 1994 International Union of Operating Engineers, Operating Engineers Hazmat Worker Training Program Evaluation Committee
- 1987 - 1995 ONE Committee - OSHA, NIOSH, EPA and MSHA coordinating committee
- 1986 - Present World Health Organization/International Programme on Chemical Safety; International Chemical Safety Cards

Peer-reviewed publications (most recent listed)

1. NIOSH (1997, 1998, 1999). CD-ROM and Internet Database: National Agricultural Safety Disk (1<sup>st</sup>, 2<sup>nd</sup>, and 3<sup>rd</sup> editions). Cincinnati, OH: U.S. Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health.
2. Niemeier, R.W. and I. Obadia. (2000). The International Chemical Safety Cards Project. Contingencies, Emergency, Crisis, and Disaster Management: Emergency Management in the Third Millennium. Proceedings of the 7<sup>th</sup> Annual Conference of The International Emergency Management Society, Orlando, FL. (May 16-19, 2000) pp. 186-195 and International Journal of Emergency Management.
3. NIOSH (2000). NIOSH Hazard Review: Carbonless Copy Paper. Cincinnati, OH: U.S. DHHS, PHS, CDC, NIOSH. DHHS (NIOSH) Publication No. 2001-107 (December 2000)
4. Niemeier, R.W. (2000). Chapter 22. Petroleum, Coal Tar, and Related Products. Patty's Toxicology, Fifth Edition, Bingham, E., Cofrancesco, B. and Powell, C.H. (editors) 1:763-828.
5. Niemeier, R.W. and Obadia, I. 2001. International chemical safety cards and global harmonization. Safety Science, 39:107-115.
6. Schulte, P.A., Okun, A., Stephenson, C.M., Colligan, M., Ahlers, H., Gjessing, C., Loos, G., Niemeier, R.W., and Sweeney, M.H. 2003. Information dissemination and use: critical components in occupational safety and health. Amer. J. Ind. Med.: 2003 Nov; 44(5):515-531.
7. Malkin, R., Hudock, S., Hayden, C., Topmiller, J., Lentz, T.J., and Niemeier, R.W. 2005. An Assessment of Occupational Safety and Health Hazards in Selected Small Businesses Manufacturing Wood Pallets—Part 1. Noise and Physical Hazards. Journal of Occupational and Environmental Hygiene, 2: D18–D21. (April, 2005)
8. Malkin R, Lentz TJ, Topmiller J, Hudock SD, Niemeier RW 2006. The characterization of airborne occupational safety and health hazards in selected small businesses; manufacturing wood pallets Ind Health, Jan; 44(1):58-63.

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Stephen A. Olenchock, Ph.D.</b>		Immunologist Tel: (304)285-6271; Email: <a href="mailto:sbo8@cdc.gov">sbo8@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Saint Vincent College, Latrobe PA	B.A with Honors	1968	Biology
West Virginia University, Morgantown WV	PhD	1975	Microbiology/Immunology

Positions

2005-Present	Senior Scientist/Scientific Review Administrator, Office of the Director, NIOSH
1998-2005	Senior Scientist for Agricultural Research, Office of the Director, NIOSH
1996-1998	Director, National Farm Medicine Center, Marshfield, WI
1994-1996	Associate Director for Biological Sciences (acting), Health Effects Laboratory Div., NIOSH
1991-1996	Assistant to the Director for Agriculture, Div. of Respiratory Disease Studies, NIOSH
1985-1996	Adjunct Professor, Department of Microbiology and Immunology, West Virginia University
1980-1991	Chief, Immunology Section, Div. of Respiratory Disease Studies, NIOSH
1975-1980	Immunologist, Div. of Respiratory Disease Studies, NIOSH

Other experience and professional memberships

American Academy of Microbiology, Fellow  
 American Society for Microbiology, member  
 Catholic Academy of Sciences, Academician  
 Commissioned Officers Association (COA) of the United States Public Health Service, member  
 National Institute for Farm Safety, full member  
 North American Agromedicine Consortium, member  
 The International Biodeterioration and Biodegradation Society, member  
 The Military Officers Association of America, life member

Editorial Board Member

1997-Present	Member, International Advisory Board, <u>Scandinavian Journal of Work, Environment, and Health</u> .
1994-Present	Associate Editor, <u>Journal of Agricultural Safety and Health</u> .
1993-Present	Member, Editorial Board, <u>Annals of Agricultural and Environmental Medicine</u>
1993-Present	Member, Editorial Board, <u>Journal of Agromedicine</u> .
1992-Present	Member, Editorial Board, <u>International Biodeterioration &amp; Biodegradation</u>

Honors

2006	Elected as Academician in the Catholic Academy of Sciences
2003	Alumnus of Distinction, Saint Vincent College, Latrobe, PA
2000	National Center for Farmworker Health, for Leadership and Support of Farmworker Health and Safety Research
1998	CDC Senior Biomedical Research Service, for Outstanding Scientific Contributions to Public Health
1980-1996	Numerous Awards from U.S. Public Health Service Commissioned Corps

Peer-reviewed publications (most recent listed)

1. Christiani, David C., David H. Wegman, Ellen A. Eisen, Ting-ting Ye, Pei-lian Lu, and Stephen A. Olenchock. 1993. Cotton dust and gram-negative bacterial endotoxin correlations in two cotton textile mills. *Am J Indust Med* 23:333-342.
2. Christiani, David C., Aurora Velazquez, Margaret Wilcox, and Stephen A. Olenchock. 1993. Airborne endotoxin concentrations in various work areas within a cotton mill in Central America. *Environ Res* 60:187-192.
3. McDuffie, Helen H., James A. Dosman, Karen M. Semchuk, Stephen A. Olenchock, and Ambikaipakan Senthilselvan (Eds). 1995. Agricultural Health and Safety: Workplace, Environment, Sustainability. CRC Press, Inc., Lewis Publishers, New York.
4. Crook B. and S.A. Olenchock. 1995. Industrial Workplaces. IN: Cox, Christopher S. and Christopher M. Wathes (Eds), Bioaerosols Handbook. CRC Press, Inc., Lewis Publishers, New York. pp 531-545.

5. pendorf, William, James A. Merchant, Stephanie Leonard, Leon F. Burmeister, and Stephen A. Olenchock. 1995. Respirator protection and acceptability among agricultural workers. *Appl Occup Environ Hyg* 10:595-605.
6. wartz, David A., Peter S. Thorne, Stephen J. Yagla, Leon F. Burmeister, Stephen A. Olenchock, Janet L. Watt, and Timothy J. Quinn. 1995. The role of endotoxin in grain dust-induced lung disease. *Am J Respir Crit Care Med* 152:603-608.
7. rkins, H.H. Jr., and S.A. Olenchock. 1995. Washing cotton by batch Proceedings of the esses to control dust and endotoxin. *Ann Agric Environ Med* 2:45-51.
8. n Essen, Susanna G., Dennis P. O'Neill, Stephen A. Olenchock, Richard A. Robbins, and Stephen I. Rennard. 1995. Grain dusts and grain plant components vary in their ability to recruit neutrophils. *J Toxicol Environ Health* 46:425-441.
9. n Essen, Susanna G., Dennis P. O'Neill, Sandra McGranaghan, Stephen A. Olenchock, and Stephen I. Rennard. 1995. Neutrophilic respiratory tract inflammation and peripheral blood neutrophilia after grain sorghum dust extract challenge. *Chest* 108:1425-1433.
10. nchock, Stephen A. 1997. Airborne Endotoxin. IN: Hurst, Christon J., Guy R. Knudsen, Michael J. McInerney, Linda D. Stentzenbach, and Michael V. Walater (eds.), Manual of Environmental Microbiology, ASM Press, Washington, DC. pp 661-665.
11. ner, M.K., A.M. Swinker, M.L. Beard, G.N. Cosma, J.L. Traub-Dargatz, A.B. Martinez, and S.A. Olenchock. 1998. Effect of phone book paper versus sawdust and straw bedding on the presence of airborne gram-negative bacteria, fungi and endotoxin in horse stalls. *J. Equine Vet Sci* 18:457-461.
12. Iman, G.J., P.S. Thorne, P.F. Waldron, J.J. Marx, B. Ault, D.M. Lewis, S.A. Olenchock, and J.A. Merchant. 1998. Organic dust exposures from work in dairy barns. *Am. Indust. Hyg. J.* 59:403-413.
13. istiani, David C., Ting-ting Ye, Shu Zhang, David H. Wegman, Ellen A. Eisen, Louise A. Ryan, Stephen A. Olenchock, Lucille Pothier, and He-lian Dai. 1999. Cotton dust and endotoxin exposure an long-term decline in lung function: Results of a longitudinal study. *Am. J. Indust. Med.* 35:321-331.
14. uwenhuijsen, Mark J., Kyle S. Noderer, Marc B. Schenker, Val Vallyathan, and Steve Olenchock. 1999. Personal exposure to dust, endotoxin and crystalline silica in California agriculture. *Ann Occup. Hyg.* 43:35-42.
15. eland, Dean T., Stephen A. Olenchock, Paul. D. Gunderson. 1999. Relationship of concern for health and intent to use protective equipment for ginseng farmers in central Wisconsin. IN: Proceedings of XIII Congress of the International Association of Agricultural Medicine and Rural Health. pp. 090-6 – 090-7.
16. istiani, David C., Xiao-Rong Wang, Pan Lei-Da, Zhang Hong-Xi, Sun Bi-Xiong, Helian Dai, Ellen A. Eisen, David H. Wegman, and Stephen A. Olenchock. 2001. Longitudinal changes in pulmonary function and respiratory symptoms in cotton textile workers: A 15-yr Follow-up Study. *Am. J. Resp. Crit. Care Med.* 163:847-853.
17. ewicz, Jacek, Stephen A. Olenchock, Ewa Krysinska-Traczyk, Czeslawa Skorska, Jolanta Sitkowska, and Zofia Prazmo. 2001. Exposure to airborne microorganisms in fiberboard and chipboard factories. *Ann. Agric. Environ. Med.* 8:191-199.
18. nchock, Stephen A. 2002. Airborne endotoxin. In: Hurst, Christon J., Ronald L. Crawford, Guy R Knudsen, Michael J. McInerney, and Linda D. Stetzenbach (eds.), *Manual of Environmental Microbiology, Second Edition*. ASM Press, Washington DC. pp 853-859.
19. g, Xiao-Rong, Lei-Da Pan, Hong-Xi Zhang, Bi-Xiong Sun, He-lian Dai, Ellen A. Eisen, David H. Wegman, Stephen A. Olenchock, and David C. Christiani. 2003. Respiratory symptoms in cotton textile workers: A 15-Year Follow-Up Observation. *Occupat. Environ. Med.* 60: 935-941.
20. , Kiyoun, Robert J. Lawson, Stephen A. Olenchock, Val Vallyathan, Randal Southard, Peter S. Thorne, Cathy Saiki, and Marc B. Schenker. 2004. Personal exposures to inorganic and organic dust in manual harvest of California citrus and table grapes. *J. Occupat. and Environ. Hyg.* 1:505-514.
21. g, Xiao-Rong, Hong-Xi Zhang, Bi-Xiong Sun, He-Lian Dai, Lei-Da Pan , Ellen A. Eisen, David H. Wegman, Stephen A. Olenchock, and David C. Christiani. 2004. Is chronic airway obstruction related to cotton dust exposure reversible? *Epidemiology* 15:695-701.
22. Wang, Xiao-Rong, Hong-Xi Zhang, Bi-Xiong Sun, He-Lian Dai, Jing-Quing Hang, Ellen A. Eisen, David H. Wegman, Stephen A. Olenchock, and David C. Christiani. 2005. Chronic respiratory effects of exposure to cotton dust: A twenty-year follow-up study in cotton textile workers. *Eur Respir J* 26:881-886.

**BIOGRAPHICAL SKETCH**

03 -26-2006

<b>Bridget Teresa Palermo</b>		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**

6-15-2006

<b>Stephanie M. Pendergrass, M.S.</b>		Research Chemist Tel: (513) 841-4359 E-mail: spendergrass@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
McMurry College, Abilene, TX	BS	5/80	Biology & Chemistry Minors: History & Physics
Texas Tech University, Lubbock, TX	M.S.	5/84	Organic/Analytical Chemistry

Positions

- 2006 – present    Technical Project Director of Comprehensive Analytical Support Contract, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Cincinnati OH
- 2000-2005        Research Chemist Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Chemical Exposure and Monitoring Branch, Cincinnati OH
- 1989-2000        Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Chemical Exposure and Monitoring Branch, Measurements Support Section, Cincinnati OH
- 1989                Sanitary Coating Research Chemist BASF Corporation, Cincinnati, OH
- 1985-1988        Senior Adhesives Chemist/Environmental Safety Director, Hardcast, Inc., Wylie TX
- 1981 – 1984        Research/Teaching Assistant, Texas Tech University, Lubbock TX

Peer-reviewed publications (most recent listed)

1. Kullman, G.; Bohlstein, R.L.; Pendergrass, S.M.; et.al. *Characterization of Respiratory Exposures at the Microwave Popcorn Plant* Draft Journal Article (2003)
2. Pendergrass, S.M. , *Method Development for the Determination of Diacetyl and Acetoin at a Microwave Popcorn Plant*, Draft manuscript forwarded to ESTJ.
3. Pendergrass, S.M.; and Dolberg, Donald D.; NMAM Method Update: *A Laboratory Response to Concerns about Technologically Outdated Methods*, draft manuscript forwarded to AIHAJ.
4. Kullman, G.; Bohlstein R.; Piacitelli, C.; Pendergrass S.; Jones, W.; Grubbs, A.; and Kreiss, K. *Respiratory Exposures from a Microwave Popcorn Packaging* . AICHG (June 1-2, 2006)
5. Pendergrass, S.M. ; Krake, Ann; 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).
6. 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).
7. Pendergrass, S.M., Determination of Glycols in air” Development of sampling analysis

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Edward L. Petsonk, M.D.</b>		Team Leader, Workforce Screening and Surveillance Team SB, DRDS, NIOSH - (304) 285 5754 - <a href="mailto:elp2@cdc.gov">elp2@cdc.gov</a>	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
Cornell University, Ithaca, NY	A.B. Summa	1969	Physics
McGill University, Faculty of Medicine, Montreal, PQ	Cum Laude 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
National Institute for Occupational Safety and Health/West Virginia University, Morgantown, WV	Fellowship	1979-81	Pulmonary Diseases

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  
 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.

#### Invited Editorial

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

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>John R. Powers, Jr.</b>		Supervisory General Engineer Tel: (304) 285-6219; E-mail: jop5@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
The Pennsylvania State University, State College, PA	B.S.	1984-1988	Electrical Engineering

Positions

2002-Present	Supervisory General Engineer, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
1997-2002	Electronics Engineer, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Morgantown, WV
1994-1997	Electronics Engineer, Department of Defense, U.S. Army Aviation and Missile Command, Letterkenny Army Depot, Chambersburg, PA
1989-1994	Electronics Engineer, Department of Defense, U.S. Navy, Naval Aviation Depot, Norfolk, VA
1988-1989	Electrical Engineer, Department of Defense, U.S. Navy, Norfolk Naval Shipyard, Portsmouth, VA

Other experience and professional memberships

Institute of Electrical and Electronics Engineers  
Society of Automotive Engineers

Awards

2005 Bullard-Sherwood Award for Research 2 Practice, Honorable Mention  
2002 Federal Laboratory Consortium (Southeast Region), Honorable Mention for Excellence in Technology Transfer  
2002 Alice Hamilton Award, Honorable Mention, Engineering and Physical Sciences Category

Peer-reviewed publications (most recent listed)

1. Powers JR, Harris JR, Etherton JR, Snyder KA, Ronaghi M, Newbraugh BH. [2001]. Performance of an automatically deploying ROPS on ASAE Tests. Journal of Agricultural Safety and Health 7(1):51-61.
2. Powers JR, Harris JR, Etherton JR, Ronaghi M, Snyder KA, Lutz TJ, Newbraugh BH. [2001]. Preventing tractor rollover fatalities: performance of the NIOSH AutoROPS. Injury Prevention 7(Suppl. 1):54-58.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Stephanie Pratt, M.A.</b>		Research Health Scientist Tel: (304) 285-5992; E-mail: sgp2@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
West Virginia University, Morgantown, WV	B.M.	1974-1977	Applied Music
West Virginia University, Morgantown, WV	M.M.	1977-1979	Applied Music
West Virginia University, Morgantown, WV	M.A.	1984-1987	Applied Social Research

Research and Professional Experience:

1979-1983: Library Technical Assistant, West Virginia University Health Sciences Library, Morgantown, WV

1983-1993: Senior Program Coordinator, West Virginia University Office of Health Services Research, Morgantown, WV

National Institute for Occupational Safety and Health, Division of Safety Research, Morgantown, WV:

Statistician (Health), 1993-1999; Epidemiologist, 1999-2005, Research Health Scientist, 2005- and NORA/NIOSH Coordinator for the Transportation, Warehousing, and Utilities sector, 2005-.

Other Experience and Professional Memberships:

Interagency Coordinating Committee for Global Road Safety

American Public Health Association, Injury Control and Emergency Health Services Section

Network of Employers for Traffic Safety, Board of Directors (ex officio)

ANSI Z-15 Committee, Safe Practices for Motor Vehicle Operations

Transportation Research Board, Vehicle User Characteristics Committee

Selected Publications:

1. Pratt SG [2004]. Work-related roadway crashes – United States, 1992-2002. *MMWR* 53(12): 260-264.
2. Mardis AL, Pratt SG [2003]. NIOSH Alert: Preventing deaths, injuries, and illnesses of young workers. Cincinnati, OH: Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health. DHHS (NIOSH) Pub. No. 2003-128.
3. Mardis AL, Pratt SG [2003]. Nonfatal injuries to young workers in the retail trades and services industries in 1998. *JOEM* 45(3): 316-323.
4. Kisner SM, Pratt SG [1999]. Occupational injury fatalities among older workers in the United States, 1980-1994. *Am J Indust Med (Supp 1)*: 24-25.
5. Wahl GL, Parker DL, Pratt SG, Moore PH [1999]. Childhood work-related agricultural fatalities – Minnesota, 1994-1997. *MMWR* 48(16): 332-335.
6. Pratt SG, Hard DL [1998]. Injury risk factors associated with workplace agricultural fatalities. *Journal of Agricultural Safety and Health Special Issue (1)*: 29-38.
7. Wahl GL, Brown M, Parker DL, Pratt SG [1998]. Fatalities associated with large round hay bales – Minnesota, 1994-1996. *MMWR* 47(2): 27-30.
8. Kisner SM, Pratt SG [1997]. Occupational fatalities among older workers in the United States: 1980-1991. *J Occup Environ Med* 39(8): 715-721.
9. Pratt SG, Kisner SM, Moore PH [1997]. Machinery-related fatalities in the construction industry. *Amer J Indust Med* 32: 42-50.
10. Pratt SG, Kisner SM, Helmkamp JC [1996]. Machinery-related occupational fatalities in the United States, 1980 to 1989. *J Occup Environ Med* 38(1): 70-76.

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Mahmood Ronaghi, M.S.</b>		Research Safety Engineer Tel: (304) 285-6054; E-mail: mhr8@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Colorado at Boulder, Boulder, CO	M.S.	94	Aerospace Engineering
North Carolina A&T State University Greensboro, NC	M.S.	92	Mechanical Engineering
Jackson State Univ., Jackson, MS	B.S.	86	Mechanical Design
Jackson State Univ., Jackson, MS	M.B.A.	79	Business Admin
Inst. of Adv. Accounting, Iran	B.S. Accounting	76	Cost –Accounting

Research and Professional Experience

1996-present     Research Safety Engineer, DSR, NIOSH  
1993-1994        Graduate Research Assistant, University of Colorado at Boulder, Boulder, CO  
1989-1991        Graduate Research Assistant, NASA Langley Research Center, Hampton, VA  
1982-1988        Mathematics Instructor, Alcorn State University, Lorman, MS

Honors

Inaugural Bullard-Sherwood Award for Research to Practice (r2p), Honorable Mention, for outstanding achievement in transferring technology into the workplace, April 2005  
Alice Hamilton Award, 2002, Honorable Mention, “Performance of an Automatically Deployable ROPS on ASAE Tests”, *Journal of Agricultural Safety and Health* 7(1): 51-61  
Honorable Mention Award for Excellence in Technology Transfer, 2002, on AutoROPS from the Federal Laboratory Consortium Southeast Region

Most Recent Publications and Presentations

1. Ronaghi M, Wu JZ, Pan CS, Harris JR, Welcome DE, Chiou SS, Boehler B, Dong RG. [2006]. Modeling of the Static Stability of a Scissor-Lift. *Journal of ASCE Construction Engineering and Management* [in press].
2. Etherton JR, Ronaghi M, Current RS. [2005]. Development of a pultruded FRP composite material ROPS for farm tractors. *Journal of Composite Structures* [in press].
3. Etherton JR, Cutlip RG, Harris JR, Ronaghi M, Means KH, Howard S. [2002]. Dynamic performance of the mechanism of an automatically deployable ROPS. *Journal of Agricultural Safety and Health* 8(1):113-118.
4. Etherton JR, Cutlip RG, Harris JR, Ronaghi M, Means KH, Gillispie A. [2002]. Static load test performance of a telescoping structure for an automatically deployable ROPS. *Journal of Agricultural Safety and Health* 8(1):119-126.
5. Harris JR, Ronaghi M, Snyder KA. [1998]. Analyzing tractor rollovers using finite element modeling. *Analysis Solutions* 2(4):24-25.
6. Powers JR, Harris JR, Etherton JR, Snyder KA, Ronaghi M, Newbraugh BH. [2001]. Performance of an automatically deploying ROPS on ASAE Tests. *Journal of Agricultural Safety and Health* 7(1):51-61.
7. Powers JR, Harris JR, Etherton JR, Ronaghi M, Snyder KA, Lutz TJ, Newbraugh BH. [2001]. Preventing tractor rollover fatalities: performance of the NIOSH AutoROPS. *Injury Prevention* 7(Suppl. 1):54-58.

**BIOGRAPHICAL SKETCH**

03-29-2006

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

**BIOGRAPHICAL SKETCH**

10-17-2006

<b>Avima Ruder, Ph.D.</b>		Senior Research Epidemiologist Tel: (513) 841-4440; E-mail: ARuder@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
New York University, New York, NY	B.A.	1966	English literature
University of Oregon, Eugene, OR	Ph.D.	1982	Biology/genetics

Positions

2001-present	Senior Research Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
1994-2001	Section Chief/Senior Supervisory Research Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
1989-1994	Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
1986-1989	Biostatistician, Division of Planning and Evaluation, Westchester County Health Department, White Plains, NY
1985-1986	Epidemiology fellow, Department of Epidemiology and Biostatistics, Manitoba Cancer Treatment and Research Foundation, Winnipeg, Canada
1983-1985	Biostatistician/epidemiologist, Department of Clinical Epidemiology and Genetics Institute, Chaim Sheba Medical Center, Tel Hashomer, Israel
1983-1984	Visiting research associate, Department of Plant Genetics, The Weizmann Institute of Science, Rehovot, Israel

Peer-reviewed publications (selected)

1. Ruder AM. Potential Health Effects of Chlorinated Solvents. In: Framing the future in Light of the Past: Living in a Chemical World. Mehlman K, ed. Ann NY Acad Med. 2006; 1076: 207-227.
2. Ruder AM, Waters MA, Carreón T, Butler MA, Davis-King KE, Calvert GM, Schulte PA, Ward EM, Connally LB, Lu J, Wall D, Zivkovich Z, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD, Brain Cancer Collaborative Study Group. The Upper Midwest Health Study: A case-control study of glioma in rural residents. J Ag Safe Health 2006; 12: 255-274.
3. Ruder AM, Waters MA, Butler MA, Carreón T, Calvert GM, Davis-King KE, Schulte PA, Sanderson WT, Ward EM, Connally LB, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD, Talaska G, Brain Cancer Collaborative Study Group. Gliomas and farm pesticide exposure in men. Arch Environ Health 2004; 59: 650-657 (published June 2006).
4. 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.
5. 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
6. Carreón T, LeMasters, GK, Ruder AM, Schulte PA. The genetic and environmental factors involved in benzidine metabolism and bladder carcinogenesis in exposed workers. Front Biosci 2006; 11: 2889-2902.
7. Ruder AM, Hein MJ, Nilsen N, Waters MA, Laber P, Davis-King K, Prince MM, Whelan E. 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.
8. Carreón T, Ruder AM, Schulte PA, Hayes RB, Rothman N, Waters M, Grant DJ, Boissy R, Bell DA, Kadlubar FF, Hemstreet GP, Yin S, LeMasters GK. NAT2 slow acetylation and bladder cancer in workers exposed to benzidine. Int J Cancer 2006; 118: 161-168.

10. Steenland K, Hein MJ, Cassinelli RT II, Prince MM, Nilsen NB, Whelan EA, Waters EA, Ruder AM, Schnorr TM. Polychlorinated biphenyls and neurodegenerative disease mortality in an occupational cohort. *Epidemiology* 2006; 17 (1): 8-13.
11. Carreón T, Butler MA, Ruder AM, Waters MA, Davis-King KE, Calvert GM, Schulte PA, Sanderson WT, Ward EM, Connally LB, Heineman EF, Mandel JS, Morton RF, Reding DJ, Rosenman KD, Talaska G, Brain Cancer Collaborative Study Group. Gliomas and farm pesticide exposure in women. *Environ Health Perspect* 2005; 113 (5): 546-551.
12. Toraason M, Albertini R, Bayard S, Bigbee W, Blair A, Boffetta P, Bonassi S, Chanock S, Christiani D, Eastmond D, Hanash S, Henry C, Kadlubar F, Mirer F, Nebert D, Rappaport S, Rest K, Rothman N, Ruder A, Savage R, Schulte P, Siemiatycki J, Shields P, Smith M, Tolbert P, Vermeulen R, Vineis P, Wacholder S, Ward E, Waters M, Weston A. Applying new biotechnologies to the study of occupational cancer--a workshop summary. *Environ Health Perspect* 2004; 112: 413-416.
13. Huang K, Whelan EA, Ruder AM, Deddens J, Davis-King KE, Carreon T, Waters MA, Butler MA, Calvert GM, Schulte P, Zivkovich Z, Heineman E, Mandel J, Morton R, Reding D, Rosenman K, Brain Cancer Collaborative Study Group. Reproductive factors and risk of glioma in women. *Cancer Epidem Biomark* 2004; 13: 1583-1588.
14. Ruder AM, Ward EM, Dong M, Okum AH, Davis-King K. Mortality patterns among workers exposed to styrene in the reinforced plastic boatbuilding industry: an update. *Am J Indus Med* 2004; 45: 165-176.
15. Toraason M, Butler MA, Ruder AM, Forrester C, Taylor L, Ashley DL, Mathias P, Marlow KL, Cheever KL, Kreig E, Wey H. Effect of perchlorethylene, smoking, and race on oxidative DNA damage in female dry cleaners. *Mutat Res* 539: 9-18, 2003.
16. Ruder AM, Ward EM, Brown DP. Mortality in dry-cleaning workers: an update. *Am J Indus Med* 39: 121-132, 2001.
17. Ward EM, Burnett CA, Ruder AM, Davis-King K. Industries and cancer. *Cancer Cause Control* 8: 356-370, 1997.
18. Ruder AM, Ward EM, Brown DP. Cancer mortality in female and male dry cleaning workers. *J Occup Med* 36 (8): 867-874, 1994.
19. Ruder AM, Lubin F, Wax Y, Geier A, Alfundary E, Chetrit A. Estrogen and progesterone receptors in breast cancer patients: epidemiological characteristics and survival differences. *Cancer* 64: 196-202, 1989.
20. Schinder EOM, Ruder AM. Epidemiology of coca and alcohol use among high-altitude miners in Argentina. *Am J Indus Med* 15: 579-587, 1989.
21. Barell V, Wax Y, Ruder AM. Analysis of geographic differentials in infant mortality rates: the Or Yehuda community. *Am J Epidemiol* 128: 218-230, 1988.
22. Lubin F, Ruder AM, Wax Y, Modan B. Overweight and changes in weight through adult life in breast cancer etiology: a case-control study. *Am J Epidemiol* 122: 579-588, 1985.

Books, Book Chapters, Reports (selected)

1. Ruder AM, Carreon T, Ward EM, Schulte PA, Halperin W. Bladder cancer. In: Rosenstock L, Cullen MR, Brodtkin CA, Redlich CA, editors. Textbook of Clinical Occupational and Environmental Medicine, second edition. Philadelphia, Elsevier Saunders, 2004, 757-766.
2. Ruder AM. Occupational carcinogens and mutagens. In: Bang KM, ed. Occupational Epidemiology Issues/Occupational Medicine: State of the Art Reviews. Philadelphia: Hanley & Belfus, pp. 487-512, 1996.
3. Ruder AM, Ward EM, Grajewski B, Calvert G, Alderfer R. Using RTECS<sup>®</sup> toxicology data on CD-ROM to select chemicals for epidemiologic and industrial hygiene studies. In Proceedings of the 1991 Public Health Conference on Records and Statistics. Washington, D.C.: National Center for Health Statistics publication PHS-92-1214, 1992, pp. 18-22.
4. Schulte PA, Halperin WE, Ward EM, Ruder AM, guest eds. Proceedings, International Conference on Bladder Cancer Screening in High-Risk Groups. Cincinnati, Ohio, September 13-14, 1989. *J Occup Med* 32:787-947, 1990.
5. Choi NW, Miller AB, Fodor JG, Jain M, Howe GR, Risch HA, Ruder AM. Consumption of precursors of n-nitroso compounds and human gastric cancer. In: The Relevance of n-Nitroso Compounds to Human Cancer--Exposures and Mechanisms, Bartsch H, O'Neill I, Schulte- Hermann R, eds. Lyon, France: IARC Scientific Publication #84, 1987, pp 492-6.
6. Ruder AM. Wheat in the Tropics; A Review of the Literature and Current Research. Rehovot, Israel: A Contribution of the Charles W. and Tillie K. Lubin Center for Wheat Research, Weizmann Institute of Science, 1985.

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Deborah L. Sammons</b>		Medical Technologist Tel: (513) 533-8590 ; E-mail: dls7 @cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Miami University, Oxford OH	MS (pending)		Microbiology
University of Cincinnati, Cincinnati OH			

Positions

2002 – present Microbiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Biomonitoring and Health Assessment Branch, Cincinnati, OH.

1998 – 2001 Attended graduate school at Miami University in Oxford OH as part of the Long-term Training program.

1993 – 1998 Medical technologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering, Cincinnati, OH

Peer-reviewed publications (Not all most recent but includes those pertinent to pesticide work in CEMB)

1. Biagini RE, **Sammons DL**, Smith JP, et al., Simultaneous measurement of specific serum IgG responses to five select agents, ANAL BIOANAL CHEM 382 (4): 1027-1034 JUN 2005.
2. Biagini RE, MacKenzie BA, **Sammons DL**, et al., Evaluation of the prevalence of antiwheat-, anti-flour dust, and anti-alpha-amylase specific IgE antibodies in US blood donors, ANN ALLERG ASTHMA IM 92 (6): 649-653 JUN 2004.
3. Biagini RE, Smith JP, **Sammons DL**, et al., 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 379 (3): 368-374 JUN 2004.
4. Smith JP, **Sammons DL**, Biagini RE, et al., Use of fluorescence covalent microbead immunosorbent assays (FCMIAs) for multiplexed pesticide biomonitoring., ABSTR PAP AM CHEM S 226: 053-AGRO Part 1 SEP 2003.
5. Biagini RE, Murphy DM, **Sammons DL**, et al., Development of multiplexed fluorescence microbead covalent assays (FMCA) for pesticide biomonitoring, B ENVIRON CONTAM TOX 68 (4): 470-477 APR 2002.
6. NMAM 5603; Alachlor in Air method, Enzyme-linked Immunosorbent Assay (ELISA)  
Issued 15/01/1998, DL Sammons, ER Kennedy, in 2nd Supplement Publication 98-119,  
NIOSH Manual of Analytical Methods (NMAM®), 4th ed., DHHS (NIOSH) Publication 94-113 (August, 1994), Schlecht, P.C. & O'Connor, P.F. ([pfo1@cdc.gov](mailto:pfo1@cdc.gov)), Eds.



**BIOGRAPHICAL SKETCH**

10-17-2006

<b>Wayne T. Sanderson, Ph.D.</b> (Former employee)		Senior Research Epidemiologist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Missouri, Columbia, MO	B.A.	1973-1977	Biology
Central Missouri State Univ. Warrensburg, MO	M.S.	1977-1978	Industrial Hygiene
University of North Carolina, Chapel Hill, NC	Ph.D.	1984-1986	Epidemiology

Positions

6/78-6/83	Industrial Hygienist, Environmental Investigation Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV
6/83-8/84, 7/86-88	Epidemiologist / Industrial Hygienist, Clinical Investigations Branch, Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health, Morgantown, WV
8/88-7/91	Epidemiologist, Epidemiology Section, Industry wide Studies Branch, Division of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, OH
7/91-2/97	Senior Research Industrial Hygienist / Epidemiologist, Industrial Hygiene Section, Industry wide Studies Branch, Division of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, OH
2/97-2002	Section Chief, Industrial Hygiene Section, Industry wide Studies Branch, Division of Surveillance, Hazard Evaluations, and Field Studies, National Institute for Occupational Safety and Health, Cincinnati, OH
2002-present	Associate Professor, Department of Occupational and Environmental Health, The University of Iowa College of Public Health, Iowa City, IA

Honors

- 1994, 1995, Unit Commendation (PHS)
- 1996, Nominated for the USPHS Clinical Society Investigator Award "Exposure of Commercial Pesticide Applicators to the Herbicide Alachlor"
- 1996, Nominated for the USPHS Clinical Society Investigator Award "Biological Monitoring of Commercial Pesticide Applicators for Urine Metabolites of the Herbicide Alachlor"
- 1996, 1998, Commendation Medal (PHS)
- 1998, Awarded Best in Session and Runner-Up Best in Conference honors, American Industrial Hygiene Conference, Atlanta, Georgia - Poster, "Beryllium Contamination inside Machine Shop Workers' Vehicles"
- 2002, Crisis Response Service Award (PHS)
- 2002, Awarded Best in Session and Runner-up Best in Conference honors, American Industrial Hygiene Conference, San Diego, California - Poster, "Intervention to Control Take-Home Beryllium Exposures of Machine Shop Workers."
- 2002, Outstanding Unit Citation (PHS)
- 2003, Outstanding Service Medal (PHS)
- 2003, Publication (Sanderson et al. Surface sampling methods for *Bacillus anthracis* spore contamination. *Emerg Infect Dis* 8(10):1145-1151, 2002) nominated for the Charles Shepard Award - Best Scientific Publication by CDC employee.
- 2003, Cummings Award for contribution on the World Trade Center and Anthrax response efforts; award sponsored by The Society of American Military Engineers.

Selected peer-reviewed publications

- Sanderson W, Kullman G, 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.
- Sanderson W, Weber A, Edit A. Case reports: Epidemic eye and upper respiratory irritation in poultry processing plants. *Appl Occup Environ Hyg* 10(1):43-49, 1995.
- Sanderson W, Biagini R, Tolos W, Henningsen G, MacKenzie B. Urinary biomonitoring for alachlor exposure in commercial pesticide applicators by immunoassay. *Bull Environ Contam Toxicol* 54:245-250, 1995.

- Sanderson W, Ringenburg V, Biagini R. Exposure of commercial pesticide applicators to the herbicide alachlor. *Am Ind Hyg Assoc J* 56:890-897, 1995.
- Sanderson W, Talaska G, Zaebst D, Davis-King K, Calvert G. Pesticide prioritization for a brain cancer case-study. *Environ Res* 74:133-144, 1997.
- Sanderson W, Henneberger P, Martyny J, Ellis K, Mroz M, Newman L. Beryllium contamination inside vehicles of machine shop workers. *Am J Ind Med Suppl* 1:72-74, Sep 1999.
- Steenland K, Sanderson W. Lung cancer among industrial sand workers exposed to crystalline silica. *Am J Epidemiol* 153:695-703, 2001.
- Steenland K, Sanderson W, Calvert G. Kidney disease and arthritis in a cohort study of workers exposed to silica. *Epidemiol* 12:405-412, 2001.
- Sanderson W, Stoddard R, McCleery R, Echt A, Piacitelli C, Kim D, Small D, Klusaritz B, Muller P. Evaluation of *Bacillus anthracis* contamination inside the Brentwood Mail Processing and Distribution Center-District of Columbia, October 2001. *J Am Med Assoc* 287(4):445-446, 2002.
- Sanderson WT, Hein MJ, Taylor L, Curwin BD, Kinnes GM, Seitz TA, Popovic T, Holmes HT, Kellum ME, McAllister SK, Whaley DN, Tupin EA, Walker T, Freed JA, Small DS, Klusaritz B, Bridges JH. Surface sampling methods for *Bacillus anthracis* spore contamination. *Emerg Infect Dis* 8(10):1145-1151, 2002.
- Petrovitch H, Ross W, Abbott R, Sanderson W, Sharp D, Morens D, Grandinetti A, Tanner C, Masaki K, Blanchette P, Popper J, White L. Plantation work and risk of Parkinson's Disease in a population-based longitudinal study. *Arch Neurol* 59:1787-1797, 2002.
- Curwin B, Sanderson W, Reynolds S, Hein M, Alavanja M. Pesticide use and practices in the Iowa Farm Family Pesticide Exposure Study. *J Agric Saf Health* 8(4):423-433, 2002.
- Calvert G, Rice F, Boiano J, Sheehy J, Sanderson W. Occupational silica exposure and risk of various diseases: an analysis using death certificates from 27 states of the United States. *Occup Environ Med* 60:122-129, 2003.
- Curwin B, Hein M, Sanderson W, Buhler W, Nishioka M. Acephate exposure and decontamination on tobacco harvesters' hands. *J Expo Anal Environ Epidemiol* 13:203-210, 2003.
- Abbott R, Ross W, White L, Sanderson W, Burchfield C, Kashon M, Sharp D, Masaki K, Curb D, Petrovitch H. Environmental, life-style, and physical precursors of clinical Parkinson's disease: recent findings from the Honolulu-Asia Aging Study. *J Neurol* 250(Suppl 3):III/30-III/39, 2003.
- Sanderson W, Stoddard R, Echt A, Piacitelli C, Kim D, Horan J, Davies M, McCleery R, Muller P, Schnorr T, Ward E, Hales T. *Bacillus anthracis* contamination and inhalational anthrax in a mail processing and distribution center. *J Appl Microbiol* 96:1048-1056, 2004.
- Curwin B, Hein M, Sanderson W, Barr D, Reynolds S, Ward E, Alvanja M. Urinary and hand wipe pesticide levels among farmers and nonfarmers in Iowa. *J Expo Anal Environ Epidemiol* DOI:10.1038/sj.jea.7500428, Apr 20, 2005.
- Carreon T, Butler M, Ruder A, Waters M, Davis-King K, Calvert G, Schulte P, Connally B, Ward E, Sanderson W, Heineman E, Mandel J, Morton R, Reding D, Rosenman K, Telaska G. Gliomas and farm pesticide exposure in women: the Upper Midwest Health Study. *Environ Health Perspect* 113(5):546-551, May 2005.
- Curwin B, Hein M, Sanderson W, Nishioka M, Buhler W. Nicotine exposure and decontamination on tobacco harvesters' hands. *Ann Occup Hyg* 49(5):407-13, Jul 2005.
- Curwin B, Hein M, Sanderson W, Nishioka M, Reynolds S, Ward E, Alavanja M. Pesticide contamination inside farm and nonfarm homes. *J Occup Environ Hyg* 2:357-367, July 2005.
- Merchant JA, Naleway AL, Svendsen ER, Kelly KM, Burmeister LF, Stromquist AM, Taylor CD, Thorne PS, Reynolds SJ, Sanderson WT, Chrischilles EA. Asthma and farm exposures - a cohort of rural Iowa children. *Environ Health Perspect* 113(3):350-356, 2005.
- Curwin BD, Hein MJ, Sanderson WT, Barr DB, Heederik D, Reynolds SJ, Ward EM, Alvanja MC. Urinary and hand wipe pesticide levels among farmers and non farmers in Iowa. *J Expo Anal Environ Epidemiol* 15(6):500-508, Nov 2005.
- Sanderson W, Madsen M, Rautiainen R, Kelly K, Zwerling C, Taylor C, Reynolds S, Stromquist A, Burmeister L, Merchant J. Tractor overturn concerns in Iowa: Perspectives from the Keokuk County Rural Health Study. *J Agric Saf Health*. 12(1):71-81, 2006.

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Steven L. Sauter, Ph.D.</b>		Supervisory Research Psychologist (Chief, Organizational Science and Human Factors Branch, Division of Applied Science and Technology, NIOSH) Tel: (513) 533-8157 ; E-mail: sls4 @cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Wisconsin-Madison	B.A.	1968	Psychology
University of Wisconsin-Madison	M.A.	1971	Industrial Psychology
University of Wisconsin-Madison	PreDoc Trainee (NIMH)	1973-1975	Psychobiology
University of Wisconsin-Madison	Ph.D.	1975	Industrial Psychology
University of Wisconsin-Madison	PostDoc Fellow (NIEHS)	1977-1979	Prev. Medicine/ Environ. Tox.

Positions

2006-present: Associate Graduate Faculty, Northern Kentucky University  
2004-present: Adjunct Professor, Psychology, U. Cincinnati  
1988-present: Adjunct Professor, Mechanical, Industrial, Nuclear Engineering, U. Cincinnati  
1992-present: Chief, Applied Psychology and Ergonomics Branch, NIOSH  
1985-1992: Chief, Motivation and Stress Research Section, NIOSH  
1979-1985: Director, Work Performance-Behavioral Toxicology Laboratory, University of Wisconsin Department of Preventive Medicine

Editorial

Editorial Board/Advisory Board/Consulting Editor:  
J. of Occupational Mental Health, 1995-present.  
Work and Stress, 1996-present.  
J. Occupational Health Psychology, 2002-present.  
J. of Applied Psychology, 1982-1989  
Human Factors, 1997-2002.  
Internat. J. Human-Computer Interaction, 1989-2001.  
Associate Editor: J. Occupational Health Psychology, 1995-2002.

Awards

Elected Fellow, European Association for Occupational Health Psychology, 2006  
American Psychological Association Presidential Citation, 2006  
NIOSH Directors Award, 2006  
First runner-up, NIOSH Alice Hamilton OSH Award (Educational Document), 2005  
Honorable mention, NIOSH Alice Hamilton OSH Award (Educational Document), 2000  
Winning paper, NIOSH Alice Hamilton OSH Science Award, 1995.  
Nominated paper, NIOSH Alice Hamilton OSH Science Award, 1993.  
Nominated paper, NIOSH Alice Hamilton Occupational Safety and Health Science Award, 1992.  
Technical Societies Council of Cincinnati Award for Scientific Accomplishment in Gov't, 1992.  
State of North Carolina Meritorious Service Award, 1988.  
German Marshall Fund of the United States, 1983.  
NIEHS Young Environmental Health Scientist Award, 1978.  
University of Wisconsin Graduate School Award for Computer Research, 1974-1975.  
National Institute for Mental Health Training Award, 1973-1975.  
U. Wisconsin Psychology Department Outstanding Teaching Assistant Recognition, 1972.

## Publications

1. Yeung, S. S., Genaidy, A., Deddens, J., & Sauter, S. L. (in press). The relationship between protective and risk characteristics of acting and experienced workload, and musculoskeletal disorder cases among nurses. Theoretical Issues in Ergonomic Science.
2. Sauter, S. L., Swanson, N. G., Galinsky, T., Dunkin, R., & Schleifer, L. (in press). Prospective study of frequent rest breaks and relief of musculoskeletal discomfort in keyboard work. Applied Ergonomics.
3. Caruso, C. C., Bushnell, T., Eggerth, D., Heitmann, A., Kojola, B., Newman, K., Rosa, R., Sauter, S. L., & Vila, B. (2006). Long working hours, safety, and health: Toward a national research agenda. American Journal of Industrial Medicine, 49, 930-942.
4. Grosch, J. W., Caruso, C. C., Rosa, R. R., & Sauter, S. L. (2006). Long hours of work in the U.S.: Associations with demographic and organizational characteristics, psychosocial working condition, and health. American Journal of Industrial Medicine, 49, 943-952.
5. Swanson, N. G. & Sauter, S. L. (2006). Multivariate evaluation of an office ergonomic intervention using longitudinal data. Theoretical Issues in Ergonomics Science, 7(1), 3-17.
6. Sauter, S. L. & Murphy, L. R. (2005). Approaches to the management of job stress in the US. In P. Perrewe, A. M. Rossi, & S. L. Sauter (Eds.), Stress & quality of working life: Current perspectives in occupational health (pp. 168-183), Greenwich, CT: Information Age Publishing, Inc.
7. Grosch, J. & Sauter, S. L. (2005). Psychological job stress. In L. Rosenstock & M. R. Cullen (Eds.), Textbook of clinical occupational and environmental medicine, 2nd Ed. (pp. 931-942). Philadelphia: Elsevier.
8. Sauter, S. L. & Murphy, L. R. (2005). Approaches to the management of job stress in the US. In P. Perrewe, A. M. Rossi, & S. L. Sauter. (Eds.), Stress e qualidade de vida no trabalho – Perspectivas atuais da saúde ocupacional (pp.182-197). Sao Paulo, Brazil: Editora Atlas.
9. Sauter, S. L., Swanson, N. G., Waters, T., Hales, T., & Dunkin-Chadwick, R. (2005). Musculoskeletal discomfort surveys used at NIOSH. In N. Stanton, A. Hedge, K. Brookhuis, E. Salas, & H. Hendrick (Eds.), Handbook of human factors and ergonomic methods (4-1 – 4-10). Boca Raton: CRC Press.
10. Tausig, M., Fenwick, R., Sauter, S., Murphy, L., & Graof, C. (2005). The Changing Nature of Job Stress: Risk and Resources. In P. Perrewe & D. Ganster (Eds.), Research in Organizational Stress and Well Being, Vol. 4, 93-127, Amsterdam: JAI.
11. Snyder, L. A., Chen, P. Y., Grubb, P. L., Roberts, R. K., Sauter, S. L. & Swanson, N. G. (2004). Workplace Aggression and Violence against Individuals and Organizations: Causes, Consequences, and Interventions. In P. Perrewe & D. Ganster (Eds.), Research in Organizational Stress and Well Being, Vol. 4, 1-65, Amsterdam: JAI.
12. Sauter, S. L., Swanson, N. G., Waters, T., Hales, T., & Dunkin-Chadwick, R. (2005). Musculoskeletal discomfort surveys used at NIOSH. In N. Stanton et al. (Eds.), Handbook of Human Factors and Ergonomic Methods (4-1 – 4-10) Boca Raton: CRC Press.
13. Murphy, L. M. & Sauter, S. L. (2004). Organizational interventions: State of knowledge and future directions. Social and Preventive Medicine, 49, 79-86.
14. Sauter, S. L., & Murphy, L. R. (2003). Monitoring the changing organization of work: Synopsis of international practices and new developments in the United States. Social and Preventive Medicine, 48, 341-348.
15. Murphy, L. R., & Sauter, S. L. (2003). The USA perspective: Current issues and trends in the management of work Stress. Australian Psychologist, 38(2), 151-157.
16. Huang, G. D., Feuerstein, M., & Sauter, S. L. (2002). Occupational stress and work-related upper extremity disorders: Concepts and models. American Journal of Industrial Medicine, 41, 298-314.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Millie Schafer, Ph.D.</b>		Title: 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	Major: Chemistry Minors: Mathematics and Theology
University of Tennessee, Knoxville, TN	M.S.	1972	Major: Biochemistry- Molecular Genetics Minor: Molecular Biology-Chemistry
University of Cincinnati, College of Medicine, Cincinnati	Ph.D.	1991	Major: Molecular Genetics

Positions

2002 – present: Research Chemist, GS 14, National Institute for Occupational Safety and Health , Cincinnati, OH 45226

1998-2002: Research Chemist, GS-13, National Institute for Occupational Safety and Health Cincinnati, OH 45226

1992-1998: Research Chemist, GS – 12, National Institute for Occupational Safety and Health, Cincinnati, OH 45226

1987-1991: Predoctoral Student, University of Cincinnati, College of Medicine, Department of Molecular Genetics, Biochemistry and Microbiology, 3110 Medical Sciences Building, ML 524

1987-1992: Toxicologist (part-time) University of Cincinnati, Medical Center, University Hospital, Laboratory of Toxicology, 234 Goodman Street, Cincinnati, OH

1986-1987: Research Scientist, Merrell Dow Research Institute, Cincinnati, OH 45215

1982-1983: Lecturer, Department of Chemistry, Trinity College, Washington, DC

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 of Microbiology

Peer-reviewed publications (most recent listed)

1. Schafer, M.P. Adaptation of a rapid, sensitive commercial PCR assay for the detection of airborne M. tuberculosis (TB). *Infect Control Hosp Epidemiol* 15:771, 1994
2. 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.* 59z:540-546, 1998. (Ideas, 100%, work 90%, writing 100%, Citations, 11.) (Finalist- 1998 American Industrial Hygiene Association's Best Indoor Environmental Quality Paper Award)
3. 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)
4. 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 0%, Citations, 10)
5. Schafer, M.P., Martinez, K.F. and Mathews, E.S. Rapid detection and determination of the aerodynamic size range of airborne mycobacterial associated with whirlpools. *Applied Occupational and Environmental Hygiene* 18:41-50, 2003. (NIOSH 2004 Alice Hamilton Award-Biological Sciences Category)
6. 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 inactivation airborne mycobacterial. *Environmental Science & Technology* 39:9656-9664, 2005.

7. Tobias, 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 tuberculosisH37Ra particles. *Applied and Environmental Microbiology* 71: 6086-6095,2005. (NIOSH 2006 Alice Hamilton Award- Biological Sciences Category)

**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Frederick E. (Ted) Scharf, Jr., Ph.D.</b>		Research Psychologist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Antioch College, Yellow Springs, OH	BA	1977	Psychology & political analysis.
New School for Social Research, New York, NY	MA	1982	Psychology
University of California, Irvine (UCI)	PhD	1995	Social Ecology

Positions and Employment:

1977 – 1979 Coord., residential serv., & Service analyst, Washoe Assoc. for Retarded Citizens, Reno, NV.  
 1979 – 1981 Research assistant, Psychology, New School for Social Research, New York, NY  
 1981 Coord., Behavior modification prog., Laurel Hills Developmental Center, Sacramento, CA.  
 1981 – 1982 Teaching assistant, Social Ecology, University of California, Irvine  
 1982 – 1986 Research assistant, data analyst, statistical programmer, Social Ecology, Univ. of CA., Irvine  
 1985 – 1986 Graduate teaching assistant, Social Ecology, University of California, Irvine  
 1986 – 1992 Research asst., Focused Research Program on Work Environments (FRP), U. of CA., Irvine  
 1986 – 1988 Project Manager, UCI Relocation Study, FRP on Work Environments, Univ. of CA., Irvine  
 1992 – present Res. Psychologist, Nat. Inst. for Occupational Safety and Health (NIOSH), Cincinnati, OH

Other Experience

1993 – 1994 NIOSH committee on the Great Midwest Flood of 1993  
 1994 – 2001 NIOSH / Department of Labor Child Labor Team  
 1997 – 2003 Community Partners for Health Farming cooperative agreement, technical advisor, NIOSH  
 1998 – 2005 NIOSH Agriculture Steering Committee, DART alternate  
 1999 – 2006 Nat. Occupational Res. Agenda (NORA) Intervention Effectiveness Research Team, NIOSH  
 2001 – present National Center for Farmworker Health, Midwest Stream Forum Conference committee  
 2002 – 2003 Amer. Coll. of Occup. & Env. Med. Expert panel on assessing work loss and productivity.  
 2004 – present Fellows Prog., Advisory Comm., Great Lakes Center for Agricultural. Safety and Health  
 2004 – present Preventing Farm Injuries to Rural Youth cooperative agreement, technical advisor, NIOSH  
 2005 – present NIOSH r2p evaluation sub-committee  
 2006 – present NIOSH Program Portfolio, Emergency Preparedness and Response Cross-Sector Comm.

Honors

1982 – 1983 Pre-doc. Training Fellowship, Nat. Inst. of Mental Health, Social Ecology, U. of CA., Irvine  
 1985 – 1986 Outstanding Teaching Assistant, Social Ecology, University of California, Irvine  
 1987 – 1988 Outstanding Graduate Student, Alumni Association, University of California, Irvine  
 1989 – 1990 Grad. fellowship, office research and design, Shaw-Walker Corp., Social Ecology, UCI  
 1993 – 1994, Nat. Inst. for Occupational Safety and Health (NIOSH): performance & special act awards.  
 1996 – 2005  
 2000 Alice Hamilton Award; Educational Materials, Honorable Mention, NIOSH.  
 2002 NIOSH nominee: Charles C. Shepard Science Awards, category: Prevention and Control

Selected peer-reviewed publications:

Kidd, P.S., Scharf, T., and Veazie, M.A. (1996). Linking stress and injury in the farming environment: A secondary analysis of qualitative data. In: C.A. Heaney and L.M. Goldenhar, (Eds.). *Health Education Quarterly. Theme: Worksite health programs.* v.23, no.2, pp. 224-237.  
 Cole, H.P., Kidd, P.S., Isaacs, S.G., Parshall, M., and Scharf, T. (1997). Difficult decisions: A simulation that illustrates cost effectiveness of farm safety behaviors. *Journal of Agromedicine.* v.4., no.1/2., pp. 117-124.  
 Kidd, P.S., Isaacs, S.G., Cole, H.P., Parshall, M., Scharf, T., and Struttman, T. (1998). An economic motivator for safe farming: Changing perceptions through learning. *Journal of Agricultural Safety and Health. Special issue no.1.* May, 1998. pp. 205-212.  
 Scharf, T., Kidd, P., Cole, H., Bean, T., Chapman, L., Donham, K., and Baker, D. (1998). Intervention tools for farmers - Safe and productive work practices in a safer work environment. *Journal of Agricultural Safety and Health. Special issue no.1.* May, 1998. pp. 193-203.

- MacDonald, L.A., Karasek, R.A., Punnett, L., Scharf, T. (2001). Covariation between workplace physical and psychosocial stressors: Evidence and implications for occupational health research and prevention. *Ergonomics*. v.44, no.7, pp.696-718.
- Scharf, T., Vaught, C., Kidd, P., Steiner, L., Kowalski, K., Wiehagen, B., Rethi, L., and Cole, H. (2001). Toward a typology of dynamic and hazardous work environments. *Human and Ecological Risk Assessment*. v.7, no.7, pp. 1827-1841.
- Kowalski-Trakofler, K.M., Vaught, C., and Scharf, T. (2003). Judgment and Decision-making under Stress: An Overview for Emergency Managers. *International Journal of Emergency Management*. v.1, no.3. pp.278-289.

#### Selected NIOSH publications

- Stress at work. (1999). DHHS (NIOSH) Publication No.99-101. Cincinnati, OH. Available at:  
<http://www.cdc.gov/niosh/99-101pd.html>
- Kowalski, K., Scharf, T., and Hurrell, J. (2001). Traumatic incident stress: Information for emergency response workers. DHHS (NIOSH) Publication No.2002-107. Cincinnati, OH. Available at:  
<http://www.cdc.gov/niosh/unp-trinstrs.html>
- Does It Really Work? How to Evaluate Safety and Health Changes in the Workplace. (2004). Prepared by the Intervention Effectiveness Research Team of the National Occupational Research Agenda. DHHS (NIOSH) Publication No. 2004-135.

#### Selected presentations:

- Scharf, T., Kowalski, K., Wiehagen, B., Ramani, R., Lineberry, G.T., and Cole, H. (October, 2002). Hazard Recognition and Risk Communication Tools: Examples from Mining, Construction, and Emergency Response. In: ICOH. "Best Practices in Occupational Safety and Health Education, Training, and Communication: Ideas that sizzle." 6<sup>th</sup> International Conference. Baltimore, MD. October 27-30, 2002.
- Reissman, D., Fullerton, C., Scharf, T., Ursano, R., Shultz, J., Kowalski-Trakofler, K. (December, 2005). Florida Department of Health 2004 employee hurricane exposure study: A preliminary report of the survey. Florida Association of County Health Officers (FACHO), Annual Meeting, Florida Mall Hotel, Orlando, FL., December 14-16, 2005.

#### Research Support:

- NIOSH: Behavioral Health Risks in Farm Families. 10/94-9/97. Based on extensive focus group data, developed a comprehensive simulation exercise for farm family members regarding safe work practices and risks for injury.
- NIOSH: Cross-cutting Research & Interventions in Hazardous Work Environments. 3/98-9/2003. Interventions for safe work practices in hazardous work environments developed for agriculture, construction and mining, based on the Work Crew Performance Model (Wiehagen, et al., 1996).
- NIOSH: Hazard Recognition Training for Falls in Construction. 1/2000-9/2002. This project developed the hazard recognition training tool and Construction Site Ladder (CSL) exercise.



**BIOGRAPHICAL SKETCH**

03-30-2006

<b>Patricia L. Schleiff, M.S.</b>		Health Statistician Tel: (304) 285 5874 E-mail: <a href="mailto:PSchleiff@cdc.gov">PSchleiff@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of North Carolina – Wilmington, NC		1983-1985	Marine Biol & 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	<i>Statistician</i> (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.
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-[<sup>18</sup>F]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.

**BIOGRAPHICAL SKETCH**

17 October 2006

<b>Steven M. Schrader, Ph.D.</b>		Chief, Reproductive Health Assessment Team Tel: (513) 533.8210; E-mail: <a href="mailto:SSchrader@cdc.gov">SSchrader@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Missouri	Ph.D.	1978	Reproductive Physiology
University of Missouri	M.S.	1975	Animal Genetics
University of Missouri	B.S.	1974	Animal Science

Positions

1989-Present	Chief, Reproductive Health Assessment Section, NIOSH
1983-1989	Andrologist, NIOSH
1981-1983	Assistant Professor, Roosevelt University, Chicago, IL

Professional Activities

- Panel on “Endocrine Disrupting Chemicals: Can We Wait to Take Action” for the United Nations Commission on Sustainable Development. New York, NY April 30, 1996
- Invited participant to “Workshop on the Evaluation and Interpretation of Reproductive Endpoints for Human Health Risk Assessment”. Washington, D.C. November 12-14, 1997
- Co-Chair of “Effects of Toxicant Exposure on Sperm and Oocyte Quality” Postgraduate Program of the American Society of Reproductive Medicine, October 18, 1997
- Organizing Committee “Gender Differences in Reproductive Biology and Toxicology” Tucson, Arizona November 9-11, 2000
- National Children’s Study. Fertility and Early Pregnancy Working Group. 2001 – present
- Invited speaker to the “International Workshop on Endocrine Disrupting Chemicals and Their Toxicological Evaluation. in Tsukuba, Japan. February 28 to March 3, 2001
- Invited speaker to the Sixth International Nickel Conference on Ecologic, Toxicologic and Human Health Issues Associated with the Mining, Refining and Production of Nickel and Companion Elements. September 1-6, 2002, Murmansk, Russia
- International Expert Panel on Reproductive Health Issues Associated with Exposure to the Port Colborne Chemicals of Concern (i.e. Cobalt, Nickel, Copper and Arsenic) 2002-2003
- Faculty, Post Graduate Course, “Male Reproductive Genetics and Toxicology – Nature and Nurture. October 12-13, 2002. American Society of Reproductive Medicine
- Invited Speaker, “Symposium on Environmental Influences on Human Semen Quality” American Society of Andrology. Phoenix, AZ. April 1, 2003
- Chair, Andrology Laboratory Workshop. 2004 Annual Meeting of the American Society of Andrology, Baltimore, MD. April 17, 2004
- Organizing Committee, American Society of Andrology, Annual Meetings 1986, 2003, 2004, 2005
- Secretary – American Society of Andrology Executive Council 2004-2007
- Invited Speaker to International Congress “Prevention of Reproductive Health from Occupational & Environmental Risk Factors” (PROERF) Volgograd, Russia, July 2004
- Invited Workgroup Member to prepare the “WHO laboratory manual for the examination of human semen and sperm-cervical mucus interaction: 5th Edition” World Health Organization 2005

Honors

Alice Hamilton Science Award for Occupational Safety & Health, 1990, 1991, 1999

Selected peer-reviewed publications or manuscripts

- Nelson, B.K., W.J. Moorman, and S.M. Schrader. 1996. Review of experimental male-mediated behavioral and neurochemical disorders. *Neurotoxicol. Teratol.* 18(6): 611-618
- Wyrobek, A.J., S.M. Schrader, S.D. Perreault, L. Fenster, G. Huszar, D.F. Katz, A.M. Osorio, V. Sublet, and D. Evenson. 1997. Guidelines for Field Studies of Male Reproductive Disorders. *Reproductive Toxicology* 11:243-259
- Nelson, B.K., W.J. Moorman, S.M. Schrader, P.B. Shaw, and E.F. Krieg, Jr. 1997. Paternal exposure of rabbits to lead: behavioral deficits in offspring. *Neurotoxicol. Teratol.* 19(3):191-198

- Moorman, W.J., S.R. Skaggs, J.C. Clark, T.W. Turner, D.D. Sharpnack, J.A. Murrell, S.D. Simon, R.E. Chapin, and S.M. Schrader. 1998. Effects of Lead on Spermatogenic Endpoints in Rabbits. *Reproductive Toxicology* 12:333-346
- S.M. Schrader, R.E. Langford, T.W. Turner, M.J. Breitenstein, J.C. Clark, B.L. Jenkins, D.O. Lundy, S.D. Simon, and T.B. Weyandt. 1998. Reproductive Function in Relation to Duty Assignments among Military Personnel. *Reproductive Toxicology* 12:465-468
- S.M. Schrader. 1998. Towards a Safer Occupational Environment: The U.S. Approach The Example of the Glycol Ethers. *Middle East Fertility Society Journal* 3 (supp 1):68-71
- Lemasters, G.K., D.M. Olson, J.H. Yiin, J.E. Lockley, R. Shukla, S.G. Selevan, S.M. Schrader, G.P. Toth, D.P. Evenson, and G.B. Huszar. 1999. Male Reproductive Effects of Solvent and Fuel Exposure during Aircraft Maintenance. *Reproductive Toxicology* 13:155-166
- Arbuckle, T.E., S.M. Schrader, D. Cole, J.C. Hall, C.M. Bancej, L.A. Turner, and P. Claman. 1999. 2,4 D Residues in Semen of Ontario Farmers. *Reproductive Toxicology* 13:421-429
- Moorman, W.J., K.L. Cheever, S.R. Skaggs, J.C. Clark, T.W. Turner, K.L. Marlow and S.M. Schrader. 2000. Male Adolescent Exposure to Endocrine Disrupting Pesticides: Vinclozolin Exposure in Peripubertal Rabbits. *Andrologia* 32:285-293
- Moorman WJ, Ahlers HW, Chapin RE, Daston GP, Foster PMD, Kavlock RJ, Morawetz JS, Schnorr TM, Schrader SM. 2000. Prioritization of NTP Reproductive Toxicants for Field Studies. *Reproductive Toxicology* 14:293-301
- Grajewski B, Cox C, Schrader SM, Murray WE, Edwards RM, Turner TW, Smith JM, Shekar SS, Evenson DP, Simon SD, Conover DL. 2000. Semen quality and hormone levels among radiofrequency heater operators. *J Occup Environ Med* 42:993-1005
- Moline, JM, AL Golden, N Bar-Chama, E Smith, ME Rauch, RE Chapin, SD Perreault, SM Schrader, WA Suk, and PJ Landrigan. 2000. Exposure to Hazardous Substances and Male Reproductive Health: A Research Framework. *Env Health Persp* 108:803-813
- Schrader, S.M., M. J. Breitenstein, J.C. Clark, B. D. Lowe, and T. W. Turner. 2002. Nocturnal Penile Tumescence and Rigidity Testing of Bicycling Patrol Officers. *Journal of Andrology* 23:927-934
- Lawson, C.C., T.M. Schnorr, G.P. Daston, B. Grawjeski, M. Marcus, M. McDiarmind, E. Muroso. S.D. Perreault, M. Shelby. and S.M. Schrader. 2003. An Occupational Reproductive Research Agenda for the Third Millennium. *Environmental Health Perspectives* 111:584-591
- Schrader, S.M. 2003. Man and the Workplace: Assessing His Reproductive Health. *Chemical Health and Safety* 10:11-16
- Buck, G.M., C.D. Lynch, J.B. Stanford, A.M. Sweeney, L.A. Schieve, J.C. Rockett, S.G. Selevan, and S.M. Schrader. 2004. Prospective Pregnancy Study Designs for Assessing Reproductive and Developmental Toxicants. *Environmental Health Perspectives* 112:79-86
- Lowe, B., S. Schrader, and M. Breitenstein. 2004. Effect of Saddle Design on the Perineal Pressure of the Bicyclist. *Sports Medicine. Med Sci Sports Exerc* 36:1055-1062
- Schrader, SM. 2005. Research on Bicycle Saddles and Sexual Health Comes of Age. *Journal of Sexual Medicine* 2:594-595
- Guess MK, KA. Connell, SM. Schrader, S Reutman, A Wang, J Lacombe, C Toennis, B Lowe, A Melman, and MS Mikhail. 2006. Genital Sensation & Female Sexual Function In Cyclists And Runners: Are Your Feet Safer Than Your Seat? *Journal of Sexual Medicine* in press.

**BIOGRAPHICAL SKETCH**

11-17-2006

<b>John P. Sestito, J.D., M.S.</b>		Surveillance Program Coordinator Tel: (513) 841-4184; E-mail: JSestito@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
The Ohio State University	B.S.	1969–1973	Microbiology
The Ohio State University	M.S.	1973–1975	Epidemiology
Salmon P. Chase College of Law, Northern Kentucky university	J.D.	1979–1983	Law

Positions

2006–present	Surveillance Program Coordinator, Division of Surveillance, Hazard Evaluations and Field Studies (DSHEFS), National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC)
2004–2005	Acting Chief, Surveillance Branch, DSHEFS, NIOSH, CDC
2001–2004	Assistant Director for Surveillance, DSHEFS, NIOSH, CDC
1995–2000	Chief, Surveillance Branch, DSHEFS, NIOSH, CDC

Other experience and professional memberships

- Admitted to Practice before Courts, State of Ohio, 1983, and before the Federal District Court, S.D. Ohio, 1983.
- Advisor to the National Death Index, National Center for Health Statistics, 1993-present
- Intermodal Advisory Team Member assisting the Federal Motor Carrier Safety Administration in finalizing the Commercial Drivers' Hours-of-Service Regulations, January–September, 2005.
- NIOSH-CSTE Occupational Health Surveillance Work Group member, 2000 to present.
- NIOSH Surveillance Coordination Group member since 1993.
- Professional Associations – American Public Health Association; American Bar Association; Ohio Bar Associations; Commissioned Officers Association of the United States Public Health Service
- Reviewer – American Journal of Public Health, American Journal of Industrial Medicine, Public Health Reports.
- Team Leader, Surveillance Research Methods Team, National Occupational Research Agenda, 1997-2005

Publications (most recent listed)

1. NIOSH [2006]. The Team Document: Surveillance Research Methods. 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. 2004-121, April 2006.
2. NIOSH [2005]. Anderson H, Breton C, Bonauto D, Calvert G, Castellan R, Castillo D, Curwick C, Davis L, Fletcher A, Foley B, Gelberg K, Harrison R, Herrin K, Islam K, Largo T, Lim K, Materna B, May A, McClain J, McGinnis J, Moraga-McHaley S, Mulloy K, Myers J, Pate W, Ramasprad R, Reinisch F, Roscoe R, Rosenman K, Sanderson L, Schlieff P, Smith A, Stanbury M, St. Louis T, Sestito J, Thomsen C, Valiante D, and Wolf J. Putting Data to Work: occupational Health Indicators from Thirteen Pilot States for 2000. DHHS (NIOSH) Publication No. 2005-154.
3. NIOSH [2004]. Sestito JP, Lunsford RA, Hamilton AC, and Rosa RR, eds. Worker Health Chartbook, 2004. 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. 2004-146, September 2004.
4. CSTE [2003]. Ball W, Bekle T, Bonauto D, Calvert G, Castellan R, Curwick C, Davis L, Gelberg K, Harrison R, Heumann M, Kim R, Largo T, Lim K, Materna B, Myers J, London M, Osmani L, Parker D, Reinisch F, Rosenman K, Roscoe R, Salzman D, Sestito J, Stanbury M, Thomsen C, Valiante D. *Occupational Indicators: A Guide for Tracking Work-Related Health Effects and their Determinants*. Atlanta, GA: U.S., Council of State and Territorial Epidemiologists, 63 pages, August, 2003.
5. Lee E, Burnett C, Lalich, N, Cameron, L, and Sestito J. Proportionate mortality of crop and livestock farmers in the United States, 1984-1993. *Am. J. Ind. Med.* 42:410-420, 2002.

**BIOGRAPHICAL SKETCH**

10-18-2006

<b>Jerry P. Smith, Ph.D.</b>		Research Chemist Tel: (513) 533-8394 ; E-mail: jps3@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Graduate-level courses; Department of Chemistry & the Medical School at the University of Cincinnati, Cincinnati OH	---	1987-93	Courses; Biochemistry, Molecular Genetics, and Immunology
American Board of Industrial Hygiene	C.I.H.	Recertified in 1995, 1982	Industrial Hygiene certification
University of Colorado, Boulder CO; Last 2 years completed at Department of Environmental Engineering Sciences, University of Florida, Jacksonville FL	Ph.D.	1973	Analytical Chemistry
St. Thomas College (now the University of St. Thomas), St. Paul, MN	B.A.	1969	Chemistry

Positions

- 2000 – Present      Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Applied Research and Technology, Cincinnati, OH
- 1978 – 2000        Research Chemist/Aerosol Specialist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering, Cincinnati, OH.
- 1976-1978         Assistant Research Chemist, Statewide Air Pollution Research Center, University of California, Riverside, CA
- 1973-1976         Postdoctoral Research Chemist, Statewide Air Pollution Research Center, University of California, Riverside, CA

Other experience and professional memberships

American Chemical Society

Peer-reviewed publications (most recent listed)

1. Biagini, RE, Sammons, DL, Smith, JP, Snawder, JE, Striley, CAF, MacKenzie, BA, Robertson, SR., Quinn, CP. A Method For The Simultaneous Measurement Of Specific IgGs To Five CDC Select Bioterrorism Agents In Serum. Submitted, Analytical and Bioanalytical Chemistry, 382:1027-34, 2005.
2. 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.
3. 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.
4. 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.

5. 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.
6. Biagini, RE, Schlottman, 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.
7. 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
8. Smith, JP and Bartley D Effect of Sampler and Manikin Conductivity on the Sampling Efficiency of Manikin-Mounted Personal Samplers *Aerosol Science and Technology* 37:79-81(2003)
9. Shulman SA and Smith JP A Method of Estimation of Bias and Variability of Continuous Gas Monitor Data: Application to Carbon Monoxide Monitor Accuracy *AIHA Journal* 63:559-556(2002).

**BIOGRAPHICAL SKETCH**

06-06-2006

<b>John E. Snawder, Ph.D.</b>		Research Toxicologist Tel: (513) 533-8496 E-mail: <a href="mailto:jts5@cdc.gov">jts5@cdc.gov</a>	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Louisville, Louisville, KY.	BS	1980-85	Zoology
Mississippi State University, Starkville, MS.	MS	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 of Occupational Safety and Health, Cincinnati, OH
2001-2005	Supervisory, Research Toxicologist, Chief, Biological Monitoring Laboratory Section, National Institute of Occupational Safety and Health, Cincinnati, OH
2005-pres.	Supervisory, Research Toxicologist, Team leader, Biomonitoring Research Team, National Institute of 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
2006	US EPA, Office of Research and Development, Teamwork Award
1995-pres.	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
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 g 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.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Andrea Steege, M.P.H.</b>		Epidemiologist email: <a href="mailto:asteege@cdc.gov">asteege@cdc.gov</a> ; Tele: 513-841-4538	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Kenyon College	BA	1985–1989	International Studies, Latin America
Univeristy of Texas, Houston Health Sciences Center School of Public Health at El Paso	MPH	1996–1998	Public Health
University of Michigan, Ann Arbor	PhD candidate	2004–	Epidemiology

Professional Experience

Epidemiologist, Centers for Disease Control and Prevention,  
National Institute for Occupational Safety and Health  
Cincinnati, Ohio

Honors and Awards

- Honorable Mention, 2002 Alice Hamilton Award for outstanding NIOSH contribution in the area of educational materials for the document *Simple Solutions: Ergonomics for Farm Workers*.
- Health Resources and Services Administration (HRSA), Bureau of Primary Health Care, Migrant Health Program [Group Award]–Award for conducting research and making national recommendations regarding training on prevention of work-related illnesses and injuries for the migrant population.
- On the Spot Award, NIOSH. Recognition award for work developing and disseminating NIOSH document *Simple Solutions: Ergonomics for Farm Workers*.
- Nomination, Carl W. Tyler, Jr. Award for Excellence in Public Health Practice. The award recognizes student application and achievement toward elevating the scholarship of public health practice for students and practitioners

Relevant Publications

1. Steege AL, Baron S, Chen X, Carroll D, Gabbard S, Barrat V, Mines R. Occupational Health of Hired Farmworkers in the United States, National Agricultural Workers Survey Occupational Health Supplement, 1999. DHHS (NIOSH) Publication.(In Press)
2. Cameron L, Lalach N, Bauer S, Booker V, Bogue HO, Samuels S, and Steege AL. Occupational health survey of farm workers by camp health aides. *Journal of Agricultural Safety and Health*. 2006 May;12(2):139–53.
3. Estill CF, Baron S, Steege AL. Research and Dissemination Needs for Ergonomics in Agriculture. *Public Health Reports*. 2002 Sept–Oct;17(5):440–445.
4. Baron S, Estill CF, Steege A, Lalach N. NIOSH Educational Document in Spanish, *Soluciones Simples: Ergonomía para trabajadores agrícolas* (Coordinator for document).
5. Das R, Steege A, Baron S, Beckman J, Harrison R. Pesticide-related Illness among Migrant Farm Workers in the United States. *International Journal of Occupational and Environmental Health*. Special Issue on International Pesticide Use. 2001 Oct/Dec;7(1)303–312.
6. Baron S, Estill CF, Steege A, Lalach N. NIOSH Educational Document, *Simple Solutions: Ergonomics for Farm Workers* (Coordinator for document).
7. A Report of the NIOSH Work Group *New Directions in Surveillance of Hired Farm Worker Health and Occupational Safety* (Coordinator for document).

Relevant Presentations

1. Steege AL, Alterman T, Li J, Petersen M. "Occupational Hearing Loss in a Population-Based Survey of US Minority Farm Operators," 131<sup>st</sup> Annual Meeting of the American Public Health Association (San Francisco, California, November 18, 2003).
2. Steege AL, Alterman T, Li J. "Minority and Female Farm Operator Occupational Health Survey," 130<sup>th</sup> Annual Meeting of the American Public Health Association (Philadelphia Pennsylvania, November 12, 2002).
3. Steege AL. "The Occupational Health and Injury Experience of US Farmworkers," 15<sup>th</sup> Annual East Coast Migrant Stream Forum (Savannah Georgia, October 26, 2002).

4. Steege AL. "Vulnerabilidad de la Fuerza Laboral Hispana del Sector Agrícola en las Américas: Agricultores en los Estados Unidos y Modelos de Intervención," Hispanic Forum at the National Safety Council Congress & Expo (San Diego California, October 7, 2002).
5. Das R, Steege AL, Baron S, Beckman J, Vergara X, Sutton P, Harrison R. "Pesticide Illness Among Farmworkers in the United States and California," International Conference on Pesticide Exposure and Health. (Bethesda Maryland, July 9, 2002).
6. Steege AL. "Minority Farm Operator Occupational Health," Black Farmers and Agriculturalists Association Meeting. (Atlanta Georgia, February 8-10, 2002).
7. Steege AL, Gabbard S, Baron S, Carroll D, Barrat V. "A National Portrait of Farmworker Occupational Health in the United States," 14th Annual East Coast Migrant Stream Forum: *Asegurando Un Futuro Sano*. (Asheville North Carolina, October 27, 2001).
8. Baron S, Steege AL, Barrat V, Gabbard S. "Social and Economic Impacts of Globalization: Case Study of Agricultural Workers in the U.S.," 129<sup>th</sup> Annual Meeting of the American Public Health Association (Atlanta Georgia, October 22, 2001).
9. Steege AL and Baron S. "Occupational Health Data from the NAWS: An Inter-Agency Collaboration," Migrant Interagency Meeting U.S. Department of Labor (Washington DC, October 10, 2001).
10. Steege AL and Baron S. "The Health Supplement of the National Agricultural Workers Survey," 13th Annual East Coast Migrant Stream Forum: Joining Forces to Eliminate Disparities. (Philadelphia Pennsylvania, November 4, 2000).
11. Steege AL, and Baron S. "The Health Supplement of the National Agricultural Workers Survey," Midwest Farmworker Stream Forum *Las Raíces de Salud: Planting Care, Growing Wellness, Reaping Health*. (Albuquerque New Mexico, October 27, 2000).
12. Steege AL, Baron S, Gabbard S, Barrat V, Nakamoto J, Carroll D, Mines R. "The Health Supplement of the National Agricultural Workers Survey," 10th Annual Western Migrant Stream Forum. (Portland Oregon, February 3, 2001).
13. Steege A, Alterman T, Sestito J, Baron S, Estill C, Lalich N, Cameron L, "Occupational Health Surveillance of Hired Farmworkers," Agricultural Safety and Health in a New Century. (Cooperstown New York, April 29, 2000).
14. Steege AL, "Occupational Health of Hired Farmworkers," State of the State: NC Farmworker Health Conference (Chapel Hill North Carolina, March 31, 2000).
15. Steege AL, "NAWS Occupational Health Supplement," 1999 Midwest Farmworker Stream Forum (Austin Texas, December 2, 1999).
16. Steege AL Chair. Invited Panel Presentation "Challenges of Conducting Occupational Health Surveillance on a Special Population: Migrant Farmworkers" 1999 Annual Meeting of the American Public Health Association (Chicago Illinois, November 8, 1999).
17. Steege A, Booker V, Bauer S. "Worker to Worker: Collecting Occupational Health Data on Farmworkers through Camp Health Aides." National Association of Community Health Centers National Migrant Health Meeting (Denver Colorado, April 24, 1999).

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Robert P. Streicher, Ph.D.</b>	Team Leader (Research Chemist) Tel: (513) 841-4296 ; E-mail: rps3@cdc.gov		
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Cincinnati, Cincinnati OH	Ph. D.	1987	Organic Chemistry
University of Cincinnati, Cincinnati OH	M.S.	1985	Organic Chemistry
University of Cincinnati, Cincinnati OH	B.S.	1982	Chemistry

Positions

1987 – Present	Research Chemist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Science and Engineering, Cincinnati, OH
1981 – 1985	Chemist U.S. Environmental Protection Agency (part time)
1980 – 1981	U.S. Environmental Protection Agency, (part time)

Other experience and professional memberships

- American Chemical Society
- International Organization for Standardization (ISO) TC146/SC2 Working Group 4 – Organic Vapors, membership from 1997 – present
- Management representative on the NIOSH-Cincinnati Labor/Management Safety committee since 200?
- Phi Beta Kappa
- Sigma Xi

Peer-reviewed publications (most recent listed)

1. 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. Monit.* 8:523-529 (2006).
2. Bello, D, SR Woskie, RP Streicher, MH Stowe, J Sparer, CA Redlich, MR Cullen, and Y Liu: A Laboratory Investigation of the Effectiveness of Various Skin and Surface Decontaminants for Aliphatic Polyisocyanates. *J. Environ. Monit.* 7:716-721 (2005).
3. 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).
4. Bello, D, RP Streicher, YC Liu, J Sparer, F Youngs, 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).
5. Bello, D, RP Streicher, and SR Woskie: Evaluation of the NIOSH Draft method 5525 for Determination of the Total Reactive Isocyanate Group (TRIG) for Aliphatic Isocyanates in Autobody Repair Shops. *J. Environ. Monit.* 4:351-360 (2002).
6. Streicher, RP, CM Reh, R Key-Schwartz, PC Schlecht, ME Cassinelli, and PF O'Connor: Selecting Isocyanate Sampling and Analytical Methods. *Appl. Occup. Environ. Hyg.* 17(3): 157-162 (2002).

**BIOGRAPHICAL SKETCH**

10-18-2006

<b>Cynthia A. F. Striley, Ph.D.</b>	Research Chemist Tel: (513) 533-8123 E-mail: chs3@cdc.gov		
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Cincinnati, Cincinnati, OH.	BA	1985-89	Chemistry
University of Cincinnati, Cincinnati, OH.	Ph.D.	1989-94	Chemistry
NIOSH/CDC Cincinnati OH.	NRC Associate	1994-97	Immunochemistry/Chemistry.
NIOSH/CDC Cincinnati OH.	Staff Fellow	1997-98	Immunochemistry/Chemistry.

Positions

1994-1997	Physical Science Aid, (Full time Summer Employment) U.S. Environmental Protection Agency Cincinnati, OH
1994-1997	National Research Council Associate, Division of Biomedical and Behavioral Science, NIOSH Cincinnati, OH.
1997-1998	Staff Fellow, Division of Biomedical and Behavioral Science, NIOSH Cincinnati, OH
1998-pres	Research Chemist, Scientist Officer, Division of Applied Research and Technology, NIOSH Cincinnati, OH.

Honors

2006	USEPA Office of Research and Development Teamwork Award for the Human Variability Modeling Team, for an integrative approach to identify, characterize, and model the impact of human interindividual differences in biochemical and physiological determinants of chloroforms inhalation risk.
2005	CDC Shepard Award Finalist, 2005 and 2006 (Laboratory and Methods Category)
2005	Alice Hamilton Award Winner (Biological Sciences Category) for the paper: "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."
2004	PHS Achievement Medal
2001	PHS Commendation Medal.
2000	"Outstanding Presentation in Risk Assessment", from the Society of Toxicology for the presentation: "Human Interindividual Variability in the Expression of Cytochrome P-450 Forms Critical to Xenobiotic Metabolism."
1991	"The Henry Hochstatter Prize", for excellence as an undergraduate teaching assistant in organic chemistry- University of Cincinnati
1988	"The John Wiley and Sons Award" for outstanding communication skills in organic chemistry"

Other experience and professional memberships

- American Chemical Society
- Greater Cincinnati Hazardous Materials Unit

Peer-reviewed publications (most recent listed)

- 1 Curwin BD, Hein MJ, Sanderson WT, Striley C, Heederik D, Kromhout H, Reynolds SJ, Alavanja MC, "Urinary Pesticide Concentrations Among Children, Mothers and Fathers Living in Farm and Non-Farm Households in Iowa." The Annals of occupational hygiene, electronic advance access: Sept 18, (2006)
- 2 Hines, CJ, Deddens, JA, Lu, C, Fenske, RA, and Striley CAF. "Mixed-Effect Models for Evaluating Multiple Measures of Atrazine Exposure Among Custom Applicators." Journal of Occupational and Environmental Hygiene, **3**: 274-283 (2006)
- 3 Biagini, RE, Sammons, DL, Smith, JP, MacKenzie, BA, Striley, CAF, Snawder, JE, Robertson, SR, Quinn, CP. "Rapid, Sensitive, and Specific Lateral-Flow Immunochromatographic Device To Measure Anti-Anthrax Protective Antigen Immunoglobulin G in Serum and Whole Blood." Clinical and Vaccine Immunology **13(5)**: 541-546 (2006).
- 4 Hausner, SH, Striley, CAF, Krause-Bauer, JA and Zimmer, H. "Dibenzotetraaza Crown Ethers: A New Family of Crown Ethers Based on o-Phenylenediamine", Journal of Organic Chemistry **70**: 5804-5817 (2005)
- 5 Biagini, RE, Sammons, DL, Smith, JP, Snawder, JE, Striley, CAF, MacKenzie, BA, Robertson, SR., Quinn, CP. "A Method For The Simultaneous Measurement Of Specific IgGs To Five CDC Select Bioterrorism Agents In Serum." Analytical and Bioanalytical Chemistry, **382**: 1027-1034 (2005).

- 6 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.
- 7 Biagini, R.E., Sammons, D.L., Smith, J.P., Page, E.H., Snawder, J.E., Striley, C.A.F., MacKenzie, B.A. and Robertson, S.K., "Evaluation of the Prevalence of Anti-wheat-, Anti-flour dust-, and Anti-amylase Specific IgE Antibodies in US Blood Donors." *Annals of Allergy, Asthma, & Immunology*, **92**:649-653 (2004).
- 8 Biagini, R.E., Sammons, D.L., Smith, J.P., MacKenzie, B.A., Striley, C.A.F., Semenova, V., Steward-Clark, E., Stamey, E., Freeman, E.A., Quinn, C.P., and Snawder, J.E., "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, R.E., Sammons, D.L., Smith, J.P., Page, E.H., Snawder, J.E., Striley, C.A.F. and MacKenzie, B.A. "Determination of Serum IgG Antibodies to *Bacillus anthracis* Protective Antigen in Environmental Sampling Workers Using a Newly Developed Fluorescence Microsphere Covalent Immunosorbent Assay (FCMIA)" *Occup Environ Med*, **61**:703-708 (2004).
- 10 Rutkowski B, Slominska E, Szolkiewicz M, Smolenski R.T, Striley C., Rutkowski P., Swierczynski J., "N-methyl-2-pyridone-5-carboxamide: a novel uremic toxin?" *Kidney Int Suppl.* **63**:84, S19-21 (2003).
- 11 Biagini, R.E., Schlottman, S., Sammons, D.L., Smith, J.P., Snawder, J.E., Striley, C.A.F. and MacKenzie, B.A. "Description of a Method for the Simultaneous Measurement of Antibodies to 23 Pneumococcal Capsular Polysaccharides." *Clin Diag Lab Immunol*, *Clin Diag Lab Immunol*, 10:744-750, (2003).
- 12 Hines, C. J., Deddens, J. A., Striley, C. A. F., Biagini, R. E., Shoemaker, D. A., Brown, K. K., MacKenzie, B. A., and Hull, R. D. "Biological Monitoring for Selected Herbicide Biomarkers in the Urine of Exposed Custom Applicators: Application of Mixed-Effect Models," *Annals of Occupational Hygiene*, **47**, 503 (2003).
- 13 Lipscomb, J. C., Teuschler, L. K., Swartout, J. C., Striley, C.A.F. and Snawder J. E. "Variance of Microsomal Protein and Cytochrome P450 2E1 and 3A Forms in Adult Human Liver," *Toxicol Mech Method*, **13**, 45 (2003).
- 14 Davis, R. R., Murphy, W. J., Snawder, J. E., Striley, C.A.F., Henderson, D., Khan, A., Krieg, E. F. "Susceptibility to the ototoxic properties of toluene is species specific" *Hearing Research* **166**, 24 (2002).
- 15 Biagini, R.E., Murphy, D.M., Sammons, D.L., Smith, J.P., Striley, C.A.F. and MacKenzie B.A. "Development of Multiplexed Fluorescence Microbead Covalent Assays (FMCAs) for Pesticide Biomonitoring" *Bull of Environ Contam and Toxicol* **68**, 470 (2002).
- 16 MacKenzie, B.A., Striley, C.A.F., Biagini, R.E., Stettler L.E. and Hines, C.J. "Improved Rapid Analytical Method for the Urinary Determination of 3,5,6 Trichloro-2-pyridinol, a metabolite of chlorpyrifos." *Bull of Environ Contam and Toxicol* **65**:1, 1 (2000).
- 17 Striley, C.A.F., Biagini, R.E. Mastin, J.P., MacKenzie, B.A. and Robertson, S.K. "Development and validation of an ELISA for metolachlor mercapturate in urine" *Analytical Chimica Acta* **399**, 109 (1999).
- 18 Mastin, J.P., Striley, C.A.F., Biagini, R.E., Hines, C.J., Hull, R.D., MacKenzie B.A. and Robertson, S.K. "Use of Immunoassays for Biomonitoring of Herbicide Metabolites in Urine." *Analytical Chimica Acta* **376**:1, 119 (1998).
- 19 Biagini, R.E., Hull, R.D., Striley, C., MacKenzie, B.A., Robertson, S.R., Wippel, W., Mastin, J.P. "Biomonitoring for occupational exposures using Immunoassays, in *Environmental Immunochemical Methods, Perspectives and Applications.*" VanEmon, Gerlach and Johnson, eds., American Chemical Society, Washington, DC, (1996).

**BIOGRAPHICAL SKETCH**

10-16-2006

<b>Christa L. Themann, M.A. CCC-A</b>		Audiologist Tel: (513)533-8485; E-mail: CLT6@cdc.gov	
<b>EDUCATION/TRAINING:</b>			
<b>INSTITUTION AND LOCATION</b>	<b>DEGREE</b>	<b>YEAR(s)</b>	<b>FIELD OF STUDY</b>
University of Cincinnati, Cincinnati, OH	B.S.	1984-1987	Communication Disorders
University of Cincinnati, Cincinnati, OH	M.A.	1987-1989	Audiology
Johns Hopkins School of Public Health, Baltimore, MD	Certificate	1998-2000	Public Health
University of Cincinnati, Cincinnati, OH		2005-present	Epidemiology

Positions

- 1997-present Audiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH
- 1996-1997 Research Assistant, University of Cincinnati Center for Occupational Health, Cincinnati, OH
- 1990-1994 Audiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

Other experience and professional memberships

- American Speech-Language-Hearing Association, Certificate of Clinical Competence
- Council for Accreditation in Occupational Hearing Conservation, Course Director
- National Hearing Conservation Association
- International Society of Audiology

Peer-reviewed publications

1. Morata TC, Themann CL, Randolph RF, Verbsky BL, Byrne DC, Reeves ER (2005). Working in noise with a hearing loss: Perceptions from workers, supervisors, and hearing conservation program managers. *Ear & Hearing*, 26(6):529-545.
2. Criteria for a Recommended Standard: Occupational Noise Exposure (1998). Franks JR, Merry CJ, Stephenson MR, Themann CL, Prince MM, Smith RJ, Stayner LT, & Gilbert SJ (primary authors). Chan HS (document manager). Department of Health and Human Services, Public Health Service, Centers for Disease Control, National Institute for Occupational Safety and Health, DHHS (NIOSH) Publication No. 98-126, Cincinnati, OH.
3. Franks JR, Themann CL, & Sherris C (1994). The NIOSH Compendium of Hearing Protection Devices. U.S. Department of Health and Human Services, Publication No. 95-105, Cincinnati, Ohio.
4. Ehlers J, Connon C, Themann C, Meyers J, & Ballard T (1993). Hazards in agriculture. *Journal of the American Association of Occupational Health Nurses*, 41(9):414-421.
5. Franks JR & Themann CL (1992). The effects of noise-reducing earphone enclosures on audiometric threshold and maximum permissible background noise level [Abstract]. *Spectrum*, 9(Suppl 1):32-33.

**BIOGRAPHICAL SKETCH**

11-16-2006

<b>James T. Walker, Ph.D.</b>		Epidemiologist Tel: [513] 841-4219; E-mail: jtw1@cdc.gov	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Stanford University, Palo Alto, CA	A.B.	1968	Sociology
New York University, New York, NY	M.A.	1971	Sociology
University of Michigan, Ann Arbor, MI	Ph.D.	1990	Sociology

Positions

1980-present Epidemiologist, Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Cincinnati, OH

Other experience and professional memberships

American Public Health Association  
Society for Epidemiologic Research  
Population Association of America

Peer-reviewed publications (most recent listed)

1. Park RM; Schulte PA; Bowman JD; Walker JT; Bondy SC; Yost MG; Touchstone JA; Dosemeci M [2005] Potential Occupational Risks for Neurodegenerative Diseases. Am J Ind Med, Vol. 48, No. 1, pages 63-77.
2. Steenland K; Hu S; Walker J [2004]: All-cause and Cause-specific Mortality by Socioeconomic Status among Employed Persons in 27 U.S. States, 1984-1997. Am J Pub Health, Vol. 94, No. 6, pages 1037-1042.
3. Steenland K; Halperin W; Hu S; Walker JT [2003]: Deaths Due to Injuries among Employed Adults: The Effects of Socioeconomic Class. Epidemiology, Vol. 14, No. 1, pages 74-79.
4. Robinson CF; Walker JT [1999]: Cancer Mortality among Women Employed in Fast-Growing U.S. Occupations. Am J Ind Med, Vol. 36, No. 1, pages 186-192.
5. Burnett C; Robinson C; & Walker J [1999]: Cancer Mortality in Health and Science Technicians. American Journal of Industrial Medicine, Vol. 36, No. 1, pages 155-158.
6. Walker JT; Burnett CA; Lalich NR; Sestito JP; Halperin WE [1997]: Cancer Mortality among Laundry and Dry Cleaning Workers. Am J Ind Med, Vol. 32, No. 6, pages 614-619.
7. Kang SK; Burnett CA; Freund E; Walker J; Lalich N; Sestito J [1997]: Gastrointestinal Cancer Mortality of Workers in Occupations with High Asbestos Exposures. Am J Ind Med, Vol. 31, No. 6, pages 713-718.
8. Schulte PA; Walker JT; Boeniger M; Tsuchiya Y; Halperin WE [1995]: Molecular, Cytogenetic, and Hematologic Effects of Ethylene Oxide on Female Hospital Workers. J Occup Env Med, Vol. 37, No. 3, pages 313-320.
9. Schulte PA; Boal WL; Friedland J; Walker JT; Connally LB; Mazzuckelli LF; Fine LJ [1993]: Methodologic Issues in Risk Communication to Workers. Am J Ind Med, Vol. 23, No. 1, pages 3-9.
10. Walker JT; Bloom TF; Stern FB; Okun AH; Fingerhut MA; Halperin WE [1993]: Mortality Study of Workers Employed in Shoe Manufacturing. Scand J Work Environ and Health, Vol. 19, No. 2, pages 89-95.
11. Schulte PA; Boeniger M; Walker JT; Schober SE, Pereira MA, Gulati DK; Wojciechowski JP; Garza A; Froelich R; Strauss G; et al. [1992]: Biological Markers in Hospital Workers Exposed to Low Levels of Ethylene Oxide. Mutation Research, Vol. 278, No. 4, pages 237-251.



**BIOGRAPHICAL SKETCH**

10-15-2006

<b>Thomas R. Waters, Ph.D.</b>		Supervisory Safety Engineer	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati	Ph.D.	1985	Biomechanical Eng.
University of Cincinnati	M.S.	1981	Engineering Science
University of South Florida	B.A.	1975	Zoology/PreMed

Positions

- 1998-Present Supervisory Safety Engineer, Leader, Human Factors and Ergonomics Research Team, Organizational Science and Human Factors Branch, National Institute for Occupational Safety and Health, Cincinnati, Ohio.
- 1988-1998 Senior Research Physiologist, Psychophysiology and Biomechanics Section, Applied Psychology and Ergonomics Branch, National Institute for Occupational Safety and Health, Cincinnati, Ohio.
- 1982-1988 Research Associate, Department of Neurology, University of Cincinnati College of Medicine, Cincinnati, Ohio.
- 1999-Present Adjunct Professor, University of Cincinnati, Dept. of Mechanical, Industrial and Nuclear Engineering Dept.
- 1999 - Present Volunteer Associate Professor, University of Cincinnati, Department of Environmental Health, 231 Bethesda Ave., Cincinnati, Ohio
- 1990 - Present Adjunct Professor, The Ohio State University, Department of Industrial and Systems Engineering,

1971 Nei

Awards and Honors

- 1982 Recipient, NIH Biomedical Fellowship Research Grant
- 1985 Member, Outstanding Young Men of America
- 1990 Member, Who's Who Among Rising Young Americans
- 1993 Nominated Paper, Alice Hamilton Award
- 1995 Special Act Award, Department of Health and Human Services, Public Health Service, National Institute for Occupational Safety and Health (Patent Application)
- 1995 Chairman Award, All Ohio Safety and Health Congress
- 1995 Special Act Award, Department of Health and Human Services, Public Health Service, National Institute for Occupational Safety and Health (Back Belt Working Group)
- 2000 Alice Hamilton Award for Excellence in Occupational Safety and Health: Publication award for Human Studies category. [**Waters T.**, Baron S., Piacitelli L., Putz-Anderson V., Skov T., Haring-Sweeney M., Wall D., and Fine L., Epidemiological evaluation of the revised NIOSH lifting equation: a cross sectional study. *Spine*, 24(4): 386-395. 1999.]
- 2000 Special Act Award, Contributions toward development of OSHA testimony
- 2003 Volvo Award for best paper in Spine
- 2003 Alice Hamilton Award for Excellence in Occupational Safety and Health: Publication award for Human Studies category.

Peer Reviewed Publications

- Waters T.**, Baron S., and Putz-Anderson V., Methods for assessing the physical demands of manual lifting: a review and case study from warehousing. *American Industrial Hygiene Journal*. 59:871-881. 1998.
- Marras W., Fine L., Ferguson S., and **Waters T.**, The effectiveness of commonly used lifting assessment methods to identify industrial jobs associated with elevated risk of low-back disorders, *Ergonomics*, 42(1):229-245. 1999.
- Bartels S, Niedermann B, and **Waters T.** Job hazards for musculoskeletal disorders for youth working on farms. *Journal of Agricultural Safety and Health*. 6(3):191-201. 2000.
- Galinsky T, **Waters T.**, and Malit B. Overexertion Injuries in Home Health Care Workers and Need for Ergonomics. *Home Health Care Services Quarterly*. 20(3):57-73. 2001.
- Waters TR** and MacDonald LA. Ergonomic Job Design to Accommodate and Prevent Musculoskeletal Disabilities. *Assistive Technology*. 13:88-93. 2001.
- Ferguson SA, Gaudes LL, Marras WS, **Waters TR**, and Davis KG. Spinal loading when lifting from industrial storage bins. *Ergonomics*. 45(6):399-414. 2002.

- Davis KG, Marras WS, Heaney CA, **Waters TR**, and Gupta P. The impact of mental processing and pacing on spine loading. *Spine*. 27(25):2645-2653. 2002.
- Estill CF, Slavin TJ, and **Waters TR**. Musculoskeletal Disorders: A comparison of two national research agendas. *Professional Safety*. pp.45-49. September 2002
- Waters T**. Guest Editorial: Musculoskeletal Disorders Among Children and Adolescents Working in Agriculture. *Journal of Agricultural Safety and Health*. 8(3) 253-255. 2002.
- Waters T**, Baron S., Piacitelli L., Putz-Anderson V., Skov T., Haring-Sweeney M., Wall D., and Fine L., Epidemiological evaluation of the revised NIOSH lifting equation: a cross sectional study. *Spine*, 24(4): 386-395. 1999.
- Dababneh A and **Waters T**, The ergonomic use of hand tools: Guidelines for the Practitioner, *Applied Occupational and Environmental Hygiene*., 14:208-215, 1999.
- Jorgensen MJ, Marras WS, Gupta P, and **Waters TR** The Effect of Torso Flexion on the Lumbar Torso Extensor Muscle Sagittal Plane Moment Arms, *The Spine Journal*, 3:363-369, 2003.
- Waters T**, Genaidy A, Deddens J, Barriera-Viruet H. Musculoskeletal disorders among forklift operators: An emerging occupational health problem? Submitted for publication to Am. J. of Ind. Med. (In Review)
- Waters TR**. Research Program for the Prevention of Work-Related Musculoskeletal Disorders At the National Institute for Occupational Safety and Health, USA. *Proceedings of the XVth Triennial Congress of the International Ergonomics Association and the 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society*. August 24-29, 2003, Seoul, Korea.
- Waters TR**, Li F, Huston RL, and Kittusamy NK. Biomechanical modeling of spinal loading due to jarring and jolting for heavy equipment operators. *Proceedings of the XVth Triennial Congress of the International Ergonomics Association and the 7th Joint Conference of Ergonomics Society of Korea/Japan Ergonomics Society*. August 24-29, 2003, Seoul, Korea.
- Waters TR**. Two-dimensional biomechanical modeling for estimating strength of youth and adolescents for manual material handling tasks. Poster presented at 2003 Challenges in Agricultural Health and Safety Conference, San Francisco, California, September 7-9, 2003.

**BIOGRAPHICAL SKETCH**

6-15-2006

<b>Eugene M. White, Ph.D.</b> (No Longer at NIOSH)		Research Industrial Hygienist	
EDUCATION/TRAINING:			
INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
University of Cincinnati, Cincinnati, OH	Ph.D.	1993	Environmental Health
University of Cincinnati, Cincinnati, OH	M.S.	1985	Environmental Science
University of the District of Columbia, Washington, DC	B.S.	1977	Biology;

Positions

Left in 2001 to go to Millicron

September 1993 – 2000 Research Industrial Hygienist , Department of Health and Human Services, Centers for Disease Control and Prevention, National Institute for Occupational Safety and Health, Division of Physical Sciences and Engineering, National Institute for Occupational Safety and Health, Analytical Research Development Branch, Cincinnati, OH.

September 1987-93

Graduate Fellow, Department of Environmental Health, College of Medicine, University of Cincinnati, Cincinnati, OH.

Other experience and professional memberships

- American Industrial Hygiene Association - 1993 to Present
- American Conference of Governmental Industrial Hygienists - 1993 to Present
- American Society for Microbiology - 1988 to Present
- Sigma Xi, The Scientific Research Society - 1988 to Present

Peer-reviewed publications (most recent listed)

1. Cohen H, White EM Metalworking fluid mist occupational exposure limits: A discussion of alternative methods, J OCCUP ENVIRON HYG 3 (9): 501-507 SEP 2006
2. Chun DTW, Bartlett K, Gordon T, et al., History and results of the two inter-laboratory round robin endotoxin assay studies on cotton dust, AM J IND MED 49 (4): 301-306 APR 2006
3. White EM, An examination of factors that influence the generation of metalworking fluid mists, GEFAHRST REINHALT L 63 (4): 141-143 APR 2003
4. Chun DTW, Chew V, Bartlett K, et al. Second inter-laboratory study comparing endotoxin assay results from cotton dust ANN AGR ENV MED 9 (1): 49-53 2002
5. White, E. M. (M. E. Brown, E. M. White and H. A. Feng). (July 2000 ) -- *Effects of Various Treatments on the Quantitative Recovery of Endotoxin from Water-Soluble Metalworking Fluids* - Amer. Ind. Hyg. Assoc. J., 61:517-520.