

JENNIFER L. PEEL

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Department of Environmental and Radiological Health Sciences
Colorado State University
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I. EDUCATION

PhD in EPIDEMIOLOGY, May 2003

Emory University, Graduate School of Arts and Sciences, Atlanta, GA

Dissertation: Acute Cardiorespiratory Health Effects of Ambient Air Pollution in Atlanta

Advisor: Paige E. Tolbert, PhD

MPH in EPIDEMIOLOGY, May 1998

Emory University, Rollins School of Public Health, Atlanta, GA

Thesis: Race and Hormonal Treatment of Prostate Cancer in the NCI/SEER Prostate Cancer Outcomes Study (PCOS)

Advisor: J. William Eley, MD, MPH

Awards/Scholarships: Dean's Scholarship, 1996 - 1998

1998 Charles C. Shepard Award (most scholarly research paper in the Rollins School of Public as deemed by the faculty)

BS in MOLECULAR AND CELL BIOLOGY, May 1996

With an **Honors Degree in BIOCHEMISTRY AND MOLECULAR BIOLOGY**

The Pennsylvania State University, University Park, PA

Honors Thesis: Identification of SER-9 as the Catalytically Essential Residue in *Drosophila* Glutathione S-Transferase D1

Advisor: C-P David Tu, PhD

Awards/Scholarships: University Scholars Program
Academic Excellence Scholarship
Freshman Alumni Award

Dallastown Area High School **Salutatorian**, June 1991

II. PROFESSIONAL EXPERIENCE

ASSOCIATE PROFESSOR (with tenure), EPIDEMIOLOGY

7/10 – present

Epidemiology Section Head

Department of Environmental and Radiological Health Sciences

Colorado State University, Fort Collins, CO

II. PROFESSIONAL EXPERIENCE (continued)

AFFILIATE ASSOCIATE PROFESSOR Colorado School of Public Health, Denver, CO	7/10 – present
ASSISTANT PROFESSOR, EPIDEMIOLOGY Department of Environmental and Radiological Health Sciences Colorado State University, Fort Collins, CO	8/04 – 6/10
AFFILIATE ASSISTANT PROFESSOR Colorado School of Public Health, Denver, CO	10/08 – 6/10
DIRECTOR Air Pollution and Neonatal Episodes of Apnea (APNEA) Study Emory University, Rollins School of Public Health, Atlanta, GA	2/03 – 8/04
DIRECTOR Study of Particles and Health in Atlanta (SOPHIA) Emory University, Rollins School of Public Health, Atlanta, GA	6/03 – 8/04
ASSOCIATE DIRECTOR Air Pollution and Neonatal Episodes of Apnea (APNEA) Study Emory University, Rollins School of Public Health, Atlanta, GA	4/02 – 2/03
ASSOCIATE DIRECTOR Study of Particles and Health in Atlanta (SOPHIA) Emory University, Rollins School of Public Health, Atlanta, GA	4/02 – 6/03
PROJECT COORDINATOR Infant Apnea Study, Emory University, Rollins School of Public Health	1/00 – 4/02
RESEARCH ASSISTANT Study of Particles and Health in Atlanta (SOPHIA) Emory University, Rollins School of Public Health, Atlanta, GA	1/00 – 4/02
RESEARCH ASSISTANT The Prudential Center for Health Care Research (now Emory Center on Health Outcomes and Quality), Atlanta, GA	12/96 – 1/00
DATA ANALYST Georgia Center for Cancer Statistics, SEER Program, Atlanta, GA	7/98 – 1/00

III. TEACHING EXPERIENCE***In-class Instruction:***

CO-COORDINATOR 01/07 – present
 ERHS 658 Environmental and Occupational Epidemiology, Colorado State University, Fort Collins, CO
 Spring 2007, Spring 2009, Spring 2011

COORDINATR 01/05 – present
 ERHS 332 Principles of Epidemiology, Colorado State University, Fort Collins, CO
 Spring 2005, Spring 2006, Spring 2007, Spring 2008, Spring 2009, Spring 2010, Spring 2011
 Honors Option: 1 student, Spring 2010

COORDINATOR 08/05 – present
 ERHS 693A Epidemiology Colloquium, Colorado State University, Fort Collins, CO
 Spring 2007, Fall 2007, Spring 2008, Fall 2008, Fall 2009, Fall 2010

GUEST LECTURER 9/04 – present
 Colorado State University, Fort Collins, CO

ERHS 430 Human Disease and the Environment; 1 lecture (Spring 2005, 2006, 2007, 2009, 2010)
 ERHS 648 Environmental Health Risk Assessment; 1 lecture (Spring 2008)
 ERHS 658 Environmental and Occupational Epidemiology; 1 lecture (Spring 2005)
 ERHS 561 Radiation Public Health; 1 lecture (Spring 2006 - 2010)
 ERHS 640 Advanced Epidemiologic Methods; 1 lecture (Spring 2007)
 ERHS 502 Fundamentals of Toxicology; 1 lecture (Fall 2005)
 ERHS 174 Freshman Scholar's Seminar; 1 lecture (Fall 2005, 2006, 2007, 2008, 2009)
 ERHS 726 Aerosols and Occupational Health; 1 lecture (Fall 2008, 2009, 2010)
 ATS 555 Air Pollution; 1 lecture (Spring 2006)
 FSHN Foodborne Illness Seminar; 1 lecture (Fall 2006)
 HES 345 Population Health and Disease Prevention; 1 lecture (Fall 2008)
 HES 645 Chronic Disease Epidemiology; 1 lecture (Spring 2007, 2008, 2009, 2010)

GUEST LECTURER 1/08 – present
 University of Colorado, Denver, CO

Environmental and Occupational Health; 1 lecture (Spring 2008, 2009, 2010)
 Cardiovascular Disease Epidemiology; 1 lecture (Fall 2008)

INSTRUCTOR 01/04 – 5/04
 Directed Study Project, Epidemiology, Emory University, Atlanta, GA
 Developed and taught an introductory epidemiology 15-week tutorial for a first-year epidemiology doctoral student.

In-class Instruction (Continued):**INSTRUCTOR**

09/03 – 12/03

Analytic Maternal and Child Health Epidemiology, Emory University, Atlanta, GA

Taught a twelve-week course in analytic epidemiology to career Masters of Public Health students using an innovative online classroom design, with an emphasis on study design, control of confounding, detection of interaction, and critical reading of epidemiologic literature.

GUEST LECTURER

03/03 – 02/04

Occupational and Environmental Epidemiology, Emory University, Atlanta, GA

Post-Doctoral Fellows Supervised:

Maggie Clark, PhD

1/08 – present

Recipient of an American Heart Association Post Doctoral Fellowship, 7/09-6/11

Doctoral Theses Supervised:

Maggie Clark (co-advisor), "Indoor Air Pollution and Respiratory Health Among Honduran Women." Department of Environmental and Radiological Health Sciences, 12/2007.

Margie Walling (primary advisor), "Associations Between Breast Cyst Fluid Properties and Breast Cancer Risk Factors, and Markers of Inflammation in Breast Cysts from Women with Benign Breast Disease." Department of Environmental and Radiological Health Sciences, 8/2010, expected.

Kiersten Kugeler (co-advisor), TBD. Department of Environmental and Radiological Health Sciences, 5/2012, expected.

Doctoral Student Committees:

Cheryl Beseler, "Evidence of a link between acute organophosphate pesticide poisoning and depression in the Agricultural Health Study." Department of Environmental and Radiological Health Sciences, 5/2005.

Indira Gujral, "Assessment of the Abbreviated Injury Scale for the Head in Predicting Long-term Outcomes from Traumatic Brain Injury, Colorado 1998-2000." Department of Environmental and Radiological Health Sciences, 12/2007.

Ashley Busacker, "Epidemiologic Evaluation of Risk Factors, Phenotypes, and Genetics Associated with Severe Asthma." Department of Environmental and Radiological Health Sciences, 12/2008.

Rendi Bacon, "Lyme Disease in the United States." Department of Environmental and Radiological Health Sciences, 5/2009.

Colby Adams, "Temporal-Spatial Profiles of Personal PM_{2.5} Effects in Urban Childhood Asthma." Department of Environmental and Radiological Health Sciences, 5/2010, expected.

Kelley Wells, "Combined MODIS-lidar Aerosol Retrieval Over Desert Surfaces: Application of a Critical Reflectance Approach." Department of Atmospheric Science, 5/2010, expected.

Doctoral Student Committees (Continued):

Keri Nakatsu, "Spatial and Temporal Patterns of West Nile Virus in Colorado: Impacts of Weather and Climate." Department of Environmental and Radiological Health Sciences, 12/2010, expected.

Brandy Burgess, TBD. Department of Clinical Sciences, 5/2011, expected.

Masters Theses Supervised:

Jessica Fluck (co-advisor), "Respiratory Symptoms Among Wildland Firefighters in Colorado." Department of Health and Exercise Science, 5/2008.

Zachary Huescher (co-advisor), "Backpack Use and Prevalence of Back Pain among College Students." Department of Environmental and Radiological Health Sciences, 8/2009.

Michael Lee Seltsam, "Obesity and Risk of Nonfatal Injuries Among Children in Colorado." Department of Environmental and Radiological Health Sciences, 5/2010, expected.

Phoenix Mourning-Star, "Fine Particle Sources and Adverse Events in Infants Using Home Cardiorespiratory Monitors." Department of Environmental and Radiological Health Sciences, 5/2010, expected.

Heather Davis Bazemore (co-advisor), "Baseline Exposures Assessment among Nicaraguan Women." Department of Environmental and Radiological Health Sciences, 5/2010, expected.

Sarah Yoder, TBD. Department of Environmental and Radiological Health Sciences, 5/2011, expected.

Masters Student Committees:

Jennifer Chase, "Identifying potential risk factors for bacterial vaginosis and intermediate vaginal flora in Wyoming women." Department of Environmental and Radiological Health Sciences, 5/2006.

Ryan Donovan, "Cardiorespiratory Fitness, C-Reactive Protein, and the Metabolic Syndrome in Firefighters." Department of Health and Exercise Science, 5/2007.

Janine Bennett, "Environmental Factors and West Nile Virus Activity in Boulder County, CO." Department of Environmental and Radiological Health Sciences, 5/2008.

Kelly Fitzgerald, "Cardiovascular disease risk factors in fire fighters." Department of Health and Exercise Science, 12/2008.

Katie McCabe, "Ethnic Differences in TNF- α in Response to Diet and Exercise." Department of Health and Exercise Science, 12/2008.

Molly Diekmann, "Building a Logistic Regression Model to Predict Preterm Birth in Wyoming." Department of Environmental and Radiological Health Sciences, 5/2009.

Masters Student Committees (Continued):

Michael Callahan, "Raising Seed Startup Capital for Student Social Ventures." Global Social and Sustainable Enterprise graduate program, 5/2009.

Audrey Ruple, "Estimating nosocomial infection rates at veterinary teaching hospitals." Department of Clinical Sciences, 5/2010, expected.

Rebecca Snider, "Barriers to Folic Acid Awareness and Use in Wyoming Women." Department of Environmental and Radiological Health Sciences, 5/2010, expected.

Bonne Ford, "Export and long range transport of pollution and aerosols using satellite data and model output." Department of Atmospheric Sciences, 5/2010, expected.

Lorin O'Toole, TBD. Department of Health and Exercise Science, 12/2010, expected.

Undergraduate Research Supervised:

Sarah Yoder, Freshman Scholars Program, "Lyme Disease in the United States, 1995 - 2000: Examining the Associations of Age at Diagnosis and State of Residence." (8/2005 – 5/2006)

Alainna McPhaul, Freshman Scholars Program (co-advisor with David Gilkey), "Low back pain college students." (8/2007 – 5/2008)

Leslie Marchand. "Lung function among Nicaraguan women using traditional biomass indoor cook stoves." (5/2008 – 5/2009)

Six undergraduate students participating in the Nicaragua cook stove project (1/2008 – 8/2008)

Eight undergraduate students participating in the Nicaragua cook stove project (1/2009 – 12/2009)

Madeline Anna (Honors Thesis committee) (5/2009 – 12/2009)

Ryan Autenrieth (Honors Thesis Advisor) (5/2010 – 5/2011)

Lindsay Davis (Honors Thesis Advisor) (7/2010 – 5/2011)

Student Awards:

Rebecca James Baker Award, the International Society for Environmental Epidemiology (Best abstract by a new investigator), awarded to: Maggie L Clark for the abstract, Clark ML, Peel JL, Burch JB, Nelson TL, Robinson MM, Conway S, Bachand AM, Reynolds SJ. Impact of Improved Cookstoves on Indoor Air Pollution and Adverse Health Outcomes Among Honduran Women. Annual Meeting of the International Society for Environmental Epidemiology. Pasadena, October 2008. *Epidemiology* 2008;19(6): S190.

US EPA STAR Graduate Fellowship, awarded to Phoenix Mourning-Star (2008-2010)

Student Awards (Continued):

Leslie Marchand, College Honors, Celebrate Undergraduate Research & Creativity Fair, 2009. "Lung function among Nicaraguan women using traditional biomass indoor cook stoves."

American Heart Association Post Doctoral Fellowship, awarded to Maggie Clark (2009-2011)

Ryan Autenrieth, College Honors, Celebrate Undergraduate Research & Creativity Fair, 2010. "Reported Health Symptoms and Socioeconomic Status among Nicaraguan Women using Traditional Biomass Indoor Cook Stoves Compared to Ventilated Improved Stoves."

Hannah Reed, College Honors, Celebrate Undergraduate Research & Creativity Fair, 2010. "Spatial and Non-Spatial Analyses to Describe Predictors of Stove Adoption."

Douglas Robinson, College Honors, Celebrate Undergraduate Research & Creativity Fair, 2010. "Assessing the Effectiveness of a Cook Stove Intervention by Evaluating Changes in Heart Rate and Oxygen Saturation among Nicaraguan Women."

IV. RESEARCH ACTIVITIES**Submitted/Pending Grant Support**

US EPA STAR Research Program	1/11 – 12/12
Exploring new Questions of Multiple Air Pollution, Sources and Health in Denver	\$298,362
Role: PI	

National Institutes of Health / NIEHS R03 (impact/priority score = 21)	12/10 – 11/12
Impact of an Indoor Stove Intervention on Indicators of Cardiorespiratory Health	\$138,342
Role: PI	

National Institutes of Health / NIEHS R01	4/11 – 3/16
The Commuter Exposure Study: Linking Mechanistic Models, Exposure, and Health	\$ 1,750,481
Role: PI (Multiple PI submission with John Volckens)	

Current and Completed Grant Support

College Research Council, Colorado State University	7/10 – 6/11
Identifying Predictors and Barriers of Improved Cook Stove Use among Families	\$15,000
Participating in an Intervention in Nicaragua	
Role: PI	

College Research Council, Colorado State University	7/09 – 6/10
Evaluation of an Improved Cook Stove Intervention Among	\$18,500
Nicaraguan Families	
Role: PI	

Current and Completed Grant Support (Continued):

National Institutes of Health / NIEHS R01 ESO12197 Supplement to a Source-Oriented Air Pollution Health Study (Vedal, PI) Role: PI of subaward to University of Washington; in charge of epidemiological analyses for project	4/08 – 3/10 \$350,041
US EPA R833744 Health Effects and Characterization of Urban and Rural Coarse Particulate Matter in Northeastern Colorado (Hannigan, PI) Role: PI of subaward to University of Colorado at Boulder; in charge of epidemiological analyses for project	1/08-12/12 \$1,200,000
College Research Council, Colorado State University Baseline Assessment of Woodsmoke Exposures and Health Status Among Nicaraguan Women Role: PI	7/08-6/09 \$20,000
Colorado State University Educational and Research Center Pilot Research Program Improved Cookstove Intervention to Assess Changes in Woodsmoke Exposures and Health Status among Nicaraguan Families Role: PI	6/08 – 5/09 \$9,973
Colorado State University Educational and Research Center Pilot Research Program (Clark, PI) Baseline Health Assessment of a Primarily Latino and Underserved Population in Colorado Role: Mentor	6/08 – 5/09 \$9,989
Colorado State University Clean Energy SuperCluster Pilot Research Project Baseline Assessment of Woodsmoke Exposures and Health Status Among Nicaraguan Women Role: PI	5/08-4/09 \$15,000
Colorado State University Office of International Programs International Research Grant Improved Cookstove Intervention to Assess Changes in Woodsmoke Exposures and Health Status among Nicaraguan Families Role: PI	4/08 – 6/08 \$2,000
Colorado State University Office of International Programs International Field Experience Grant Improved Cookstove Intervention to Assess Changes in Woodsmoke Exposures and Health Status among Nicaraguan Families Role: PI	2/08 – 6/08 \$2,000

Current and Completed Grant Support (Continued):

College Research Council, Colorado State University Assessment of Pulmonary Function and C-Reactive Protein Levels in Wildland Firefighters Role: PI	7/07-6/08 \$17,500
4740-RFA04-4/06-1 Health Effects Institute Impact of Improved Air Quality During the 1996 Atlanta Olympic Games Role: PI	3/06 – 11/07 \$62,015
Subaward to Emory University Ambient Air Pollution and Cardiorespiratory Morbidity in Atlanta Original Award: R01ES11294 (Tolbert, PI) Role: PI of subaward to Emory University	6/05 – 11/05 \$28,606
Subaward to Emory University Air Pollution and Cardiorespiratory Emergency Department Visits Original Award: R82921301-0 (USEPA; Tolbert, PI) Role: PI of subaward to Emory University	6/05 – 11/05 \$24,646
Subaward to Emory University Ambient Air Pollution and Cardiorespiratory Events in Infants on Home Monitors Original Award: R01ES11199 (NIEHS; Tolbert, PI) Role: PI of subaward to Emory University	8/04 – 5/05 \$39,086

Peer-Reviewed Articles

Peel JL, Clark ML, Kim S-Y, Sheppard L, Milford J, Dutton SJ, Hannigan MP, Vedal S. Components and sources of fine particulate matter and daily cardiovascular and respiratory hospitalizations in the Denver Aerosol Sources and Health (DASH) study. In preparation, 2010

Vedal S, Dutton SJ, Kim S-Y, Sheppard L, Peel JL, Miller SL, Hannigan MP. Components and sources of fine particulate matter and daily mortality in the Denver Aerosol Sources and Health (DASH) study. In preparation, 2010

Kim S-Y, Vedal S, Peel JL, Hannigan MP, Dutton SJ, Sheppard L. Lag structure of the associations between PM_{2.5} components and hospitalization in Denver. In preparation, 2010

Kim S-Y, Vedal S, Peel JL, Hannigan MP, Dutton SJ, Sheppard L. The impact of the frequency of particulate matter species monitoring on mortality and hospitalization effect estimates in time series studies. In preparation, 2010

Peer-Reviewed Articles (Continued):

Hannigan MP, Hemann JG, Piedrahita R, Miller SL, Milford JB, Peel JL, Dutton SJ, Vedal, S. Value of the ambient measurements in time-series PM2.5 source/factor apportionment. In preparation, 2010

Peel JL, Klein M, Flanders WD, Clark ML, Mulholland JA, Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiovascular and Respiratory Outcomes. In preparation, 2010.

Peel JL, Tolbert PE., Klein M, Metzger KB, Flanders WD, Mulholland JA, Freed G. Ambient air pollution and cardiorespiratory events in high-risk infants on home monitors. Submitted, Environmental Health Perspectives, 2010.

Smith KR, Peel JL. Mind the Gap. Submitted, Environmental Health Perspectives, 2010.

Clark ML, Bazemore H, Reynolds SJ, Volckens J, Heiderscheidt J, Conway S, Peel JL. Baseline assessment of indoor air pollution and health status among Nicaragua women using indoor biomass stoves. Submitted, International Journal of Environmental Health Research, 2010.

Heuscher, Z., Gilkey, D., Peel, J., Kennedy, C. The Association of self-reported backpack use and backpack weight with low back pain among college students. Journal of Manipulative and Physiological Therapeutics, in press, 2010.

Gilkey DP, Keefe TJ, Peel JL, Kassab, OM, Kennedy CA. Risk factors associated with back pain: a cross-sectional study of 963 college students. J Manipulative Physiol Ther 2010; 33: 88-95.

Peel JL, Klein M, Flanders WD, Mulholland JA, Tolbert PE. 2010. Impact of Improved Air Quality During the 1996 Summer Olympic Games in Atlanta on Multiple Cardiovascular and Respiratory Outcomes. HEI Research Report 148. Health Effects Institute, Boston, MA.

Clark ML, Reynolds SJ, Burch JB, Conway S, Bachand AM, Peel JL. Indoor air pollution, cookstove quality, and housing characteristics in two Honduran communities. Environmental Research 2010; 110:12-18.

Clark ML, Peel JL, Burch JB, Nelson TL, Robinson MM, Conway S, Bachand AM, Reynolds SJ. Impact of improved cookstoves on indoor air pollution and adverse health effects among Honduran women. International Journal of Environmental Health Research, Advance Access, August 2009; DOI: 10.1080/09603120902842705.

Donovan, RM, Nelson TL, Peel JL, Lipsey TL, Voyles W, Israel RG. C-reactive protein and the metabolic syndrome are inversely associated with cardiorespiratory fitness in firefighters. Journal of Occupational Medicine, Advance Access, July 2009; doi:10.1093/occmed/kqp095.

Tolbert PE, Klein M, Peel JL, Sarnat, SE, Sarnat JA. Multipollutant modeling issues in a study of ambient air quality and emergency department visits in Atlanta. J Exp Sci Environ Epidemiol 2007;17:S29-S35.

Metzger KB, Klein M, Flanders WD, Peel JL, Mulholland. JA, Langberg JJ, Tolbert PE. Ambient air pollution and tachyarrhythmic events in patients with implantable cardioverter defibrillators. Epidemiology 2007;18(5):585-92.

Peer-Reviewed Articles (Continued):

Peel JL, Metzger KB, Klein M, Flanders WD, Mulholland JA, Tolbert PE. Ambient air pollution and cardiovascular emergency department visits in potentially sensitive populations. *American Journal of Epidemiology*, 2007;165:625-633.

Wade KS, Mulholland JA, Marmur A, Russell AG, Hartsell B, Edgerton E, Klein M, Waller L, Peel JL, Tolbert PE. Effects of Instrument Precision and Spatial Variability on the Assessment of the Temporal Variation of Ambient Air Pollution in Atlanta, Georgia. *J Air Waste Management Assoc.* 2006;56:876-888.

Peel JL, Tolbert PE, Klein M, Metzger K, Flanders WD, Todd K, Mulholland J, Ryan PB, Frumkin H. Ambient air pollution and respiratory emergency department visits. *Epidemiology* 2005;16: 164-174.

Metzger KB, Tolbert PE, Klein M, Peel JL, Flanders WD, Todd K, Mulholland JA, Ryan PB, Frumkin, H. Ambient air pollution and cardiovascular emergency department visits. *Epidemiology* 2004;15: 46-56.

Baker DW, Gazmararian JA, Williams MV, Scott T, Parker RM, Green D, Ren J, Peel J. Health literacy and use of outpatient physician services by Medicare managed care enrollees. *J Gen Intern Med* 2004;19:215-20.

Gazmararian JA, Williams MW, Baker DW, Peel J. Health literacy and patient knowledge of chronic diseases. *Patient Education and counseling.* 2003;51: 267-75.

Baker DW, Gazmararian JA, Williams MV, Scott T, Parker RM, Green D, Ren J, Peel J. Functional health literacy and the risk of hospital admission among Medicare managed care enrollees. *American Journal of Public Health* 2002;92: 1278-1283.

Waller EK, Rosenthal H, Jones TW, Peel J, Lonial S, Langston A, Redel I, Jurickova I, Boyer MW. Larger numbers of CD4^{bright} dendritic cells in donor bone marrow are associated with increased relapse after allogeneic bone marrow transplantation. *Blood* 2001;97:2948-2956.

Tolbert PE, Klein M, Metzger KB, Peel J, Flanders WD, Todd K, Mulholland JA, Ryan PB, Frumkin H. Interim results of the Study of Particulates and Health in Atlanta (SOPHIA). *Journal of Exposure Analysis and Environmental Epidemiology* 2000;20:446-460.

Peer-Reviewed Abstracts

Peel JL, Kim S-K, Hannigan MP, Dutton SJ, Clark ML, Vedal S. Fine particulate matter chemical speciation and hospital admissions in Denver: the Denver Aerosol Sources and Health (DASH) study. *Air Pollution and Health: Bridging the Gaps, International Specialty Conference by the American Association for Aerosol Research, San Diego, March 2010.*

Hannigan MP, Hemann JG, Piedrahita R, Miller SL, Milford JB, Peel JL, Dutton SJ, Vedal, S. Time-series PM2.5 source/factor apportionment – value of the measurement. 2010 NIEHS-EPA Symposium on Air Pollution and Cardiovascular Disease, Seattle, June, 2010.

Peer-Reviewed Abstracts (Continued)

Kim S-Y, Vedal S, Peel JL, Hannigan MP, Dutton SJ, Sheppard L. Lag structure of the associations between PM2.5 components and hospitalization in Denver. Annual Meeting of the International Society of Environmental Epidemiology, Seoul, Korea (Aug 2010).

Peel JL, Klein M, Flanders WD, Mulholland JA Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiorespiratory Outcomes [poster]. Annual Meeting of the International Society for Environmental Epidemiology. Dublin, Ireland, August 2009. *Epidemiology*. 20(6):S218, November 2009.

Clark, Maggie L; Reynolds, Stephen J; Heiderscheidt, Judy M; Shaw, Allison; Conway, Stuart; Volckens, John; Peel, Jennifer L. Health Endpoints Assessed During the Baseline Year of an Improved Cookstove Intervention Among Nicaraguan Women [poster]. Annual Meeting of the International Society for Environmental Epidemiology. Dublin, Ireland, August 2009. *Epidemiology*. 20(6):S216-S217, November 2009.

Clark, Maggie L; Bazemore, Heather; Reynolds, Stephen J; Heiderscheidt, Judy M; Shaw, Allison; Conway, Stuart; Volckens, John; Peel, Jennifer L. Indoor Air Pollution Concentrations Assessed During the Baseline Year of an Improved Cookstove Intervention in a Rural Nicaraguan Community [poster].]. Annual Meeting of the International Society for Environmental Epidemiology. Dublin, Ireland, August 2009. *Epidemiology*. 20(6):S218, November 2009.

Peel JL, Klein M, Flanders WD, Mulholland JA Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiorespiratory Outcomes [poster]. Health Effects Institute, Philadelphia, April 2009.

Peel JL, Klein M, Flanders WD, Mulholland JA Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Summer Olympic Games on Cardiovascular and Respiratory Outcomes [oral presentation]. Annual Meeting of the International Society for Environmental Epidemiology. Pasadena, October 2008. *Epidemiology* 2008;19(6): S318.

Clark ML, Peel JL, Burch JB, Nelson TL, Robinson MM, Conway S, Bachand AM, Reynolds SJ. Impact of Improved Cookstoves on Indoor Air Pollution and Adverse Health Outcomes Among Honduran Women [poster]. Annual Meeting of the International Society for Environmental Epidemiology. Pasadena, October 2008. *Epidemiology* 2008;19(6): S190.

Peel JL, Klein M, Flanders WD, Mulholland JA Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiorespiratory Outcomes [poster]. Health Effects Institute, Philadelphia, April 2008.

Peel JL, Klein M, Sarnat SE, Sarnat JA, Darrow L, Flanders WD, Mulholland JA, Russell AG, Tolbert PE. Speciated Ambient Air Pollution and Respiratory Emergency Department Visits [oral presentation]. American Thoracic Society, San Francisco, May 2007. *Proceedings of the American Thoracic Society* 2007;4:A959.

Peel JL, Klein M, Flanders WD, Mulholland JA Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiorespiratory Outcomes [poster]. Health Effects Institute, Chicago, April 2007.

Peer-Reviewed Abstracts (continued)

Peel JL, Metzger KB, Klein M, Flanders WD, Mulholland JA, Tolbert PE. Ambient air pollution and cardiorespiratory emergency department visits in potentially sensitive groups [oral presentation]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17:S214.

Peel JL, Klein M, Flanders WD, Mulholland JA, Freed G, Tolbert PE. Ambient air pollution and cardiorespiratory events in high-risk infants using home monitors [oral presentation]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17:S211.

Sarnat JA, Marmur A, Klein M, Kim E, Russell AG, Mulholland JA, Hopke PK, Sarnat S, Ebel, Peel JL, Tolbert PE. Associations between source-resolved particulate matter and cardiorespiratory emergency department visits [poster]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17:S267.

Tolbert P, Klein M, Peel J, Metzger K, Sarnat S, Sarnat J, Darrow L, Flanders W, Waller L, Mulholland J, Russell A. Speciated ambient air pollution and cardiorespiratory emergency department visits [oral presentation]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17:S215.

Sarnat SE, Klein M, Peel JL, Mulholland J, Sarnat JA, Flanders WD, Waller LA, Tolbert PE. Spatial considerations in a study of ambient air pollution and cardiorespiratory emergency department visits [poster]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17:S242.

Darrow L, Sarnat S, Sarnat J, Klein M, Peel J, Strickland M, Mulholland J, Tolbert P. Use of alternative pollutant temporal metrics in time series analyses of ambient air pollution and cardiorespiratory emergency department visits [poster]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17:S270.

Klein M, Tolbert P, Metzger K, Sarnat S, Peel J, Flanders D, Mulholland A, Darrow L, Langberg J. Short-term associations between ambient air pollution and arrhythmic events in patients with implanted cardioverter defibrillators, 1993-2002 [poster]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17: S145.

Clark ML, Peel JL, Nelson TL, Stevens JR, Conway S, Burch JB, Reynolds SJ. Indoor Air Pollution and Adverse Health Effects Among Honduran Women [poster]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17: S351.

Clark ML, Peel JL, Conway S, Burch JB, Reynolds SJ. Indoor Air Pollution Assessment and Cookstove Quality in Two Honduran Communities [poster]. Joint Meeting of the International Society for Environmental Epidemiology and the International Society for Exposure Analysis. Paris, France, September 2006. *Epidemiology* 2006;17: S351.

Peer-Reviewed Abstracts (continued)

Peel JL, Klein M, Flanders WD, Freed G, Tolbert PE. Ambient Air Pollution and Cardiorespiratory Events in High-Risk Infants Using Home Monitors [oral presentation]. Society for Epidemiologic Research, Seattle, WA, June 2006. *Am J Epidemiol* 2006;163:S68.

Sarnat SE, Klein M, Peel JL, Tolbert PE. Ambient pollen levels and emergency department visits for asthma in Atlanta, Georgia [poster]. Society for Epidemiologic Research, Seattle, WA, June 2006. *Am J Epidemiol* 2006;163:S120.

Clark ML, Peel JL, Conway S, Burch JB, Reynolds SJ. Indoor air pollution and respiratory health among Honduran women [poster]. Society for Epidemiologic Research. Seattle, WA; June 2006. *Am J Epidemiol* 2006; 163(11): S33.

Peel JL, Metzger KB, Klein M, Flanders WD, Mulholland JA, Langberg JJ, Tolbert PE. Ambient Air Pollution and Arrhythmic Events in Patients with Implantable Cardioverter Defibrillators, Atlanta, 1993-2002 [poster]. American Thoracic Society, San Diego, CA, May 2006. *Proceedings of the American Thoracic Society* 2006; 3:A43.

Peel JL, Klein M, Metzger KB, Flanders WD, Mulholland JA, Tolbert PE. Ambient Air Pollution and Pediatric Emergency Department Visits for Upper Respiratory Infections, Atlanta, 1993-2002 [oral presentation]. American Thoracic Society, San Diego, CA, May 2006. *Proceedings of the American Thoracic Society* 2006;3:A834.

Sarnat SE, Klein M, Peel JL, Tolbert PE. Volatile Organic Compounds and Cardiorespiratory Emergency Department Visits in Atlanta, Georgia, 1998-2002 [poster]. American Thoracic Society, San Diego, CA, May 2006. *Proceedings of the American Thoracic Society* 2006;3:A44.

Peel JL, Klein M, Flanders WD, Mulholland JA, Tolbert PE. Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiorespiratory Outcomes [poster]. Health Effects Institute annual conference, San Francisco, CA. April 2006.

Tolbert PE, Klein M, Peel JL, Metzger KB, Flanders WD, Mulholland JA. Results of ARIES emergency department and implanted defibrillator studies, 1998-2002. Annual Conference of the American Association for Aerosol Research. Atlanta, GA, October 2004.

Peel JL, Tolbert PE, Klein M, Flanders WD, Metzger KB, Freed G, Mulholland JA. Ambient Air Pollution and Cardiorespiratory Events in High-Risk Infants Using Home Monitors [poster]. Annual Meeting of the International Society for Environmental Epidemiology. New York, NY, August 2004. *Epidemiology* 2004;15:S37.

Peel JL, Tolbert PE, Klein M, Metzger KB, Flanders WD, Mulholland JA, Todd K. Ambient air pollution and cardiorespiratory emergency department visits, Atlanta, 1993-2002 [poster]. Annual Meeting of the International Society for Environmental Epidemiology. New York, NY, August 2004. *Epidemiology* 2004;15:S57.

V. SERVICE ACTIVITIES AND PROFESSIONAL AWARDS**PROFESSIONAL AWARDS:**

Delta Omega National Honorary Society in Public Health (Alpha Upsilon Chapter)	5/2010 - present
Environmental Health Student Association Outstanding Professor Award	5/2009
Environmental Health Student Association Outstanding Internship Site Award	5/2009
Nominated, CSU, Popular Science Brilliant 10	6/2008

SERVICE ACTIVITIES:***Department, College, and University Service:***

Invited speaker, The International Cookstove Program. Colorado State University International Colloquium on Global Challenges for Sustainability. Fort Collins, CO	9/2009
Colorado School of Public Health Faculty Council	6/2009 – present
Colorado School of Public Health CEPH Self Study Committee (Faculty Affairs)	6/2009 – 5/2010
ACCESS Faculty Development Project College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO	3/2009 – 5/2009
Faculty Search Committee, Health Physicist Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO	4/2009 – 3/2010
Undergraduate Education Committee Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO	8/2004 – present
Graduate Education Committee Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO	1/2009 – 7/2009
Celebrate Undergraduate Research Conference judge Colorado State University	04/2008 – present
Faculty Search Committee Chair, Cancer Epidemiologist Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO	9/2007 – 7/2008
Faculty Search Committee Member, Department Head Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO	9/2007 – 7/2008
Academic Programs Committee Representative College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO	2/2005 – 12/2006
Web Design Committee Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO	1/2005 – present

Faculty Search Committee, Industrial Hygiene 1/2005 – 6/2005
Department of Environmental and Radiological Health Sciences, Colorado State University, Fort Collins, CO

Women's Studies Project on Teaching, Curriculum and Scholarship 11/2005 – 5/2006
Colorado State University, Fort Collins, CO

Faculty Advisory Committee 8/2004 – present
Food Science and Safety Interdisciplinary Studies Program, Colorado State University, Fort Collins, CO

Local and State Service:

Expert testimony, Health Effects of Carbon Monoxide, Colorado Ethanol Group for the Colorado Air Quality Control Commission Hearing on Oxygenated Fuels 7/2009

Advisor, City of Fort Collins Air Quality Division 1/2004 – present

Invited speaker, City of Fort Collins "Air Quality Report the Community" 7/2007

Abstract Reviewer 7/2006 – present
Colorado Public Health Association Conference

State Health Department Lecture Series 5/15/2003
Epidemiology Branch, Division of Public Health, Georgia Department of Human Resources, Atlanta, GA

National and International Service:

Steering Committee, NSF Research Coordination Network on Reactive Nitrogen in the Biosphere 6/2010 – present

Steering Committee, National Center for Vehicle Emissions Clean Air Conference 3/2010 – present

Invited speaker, Health Effects Institute Center Grant Review Meeting, Washington, DC 1/2010

Invited speaker, Health Effects Institute Accountability Workshop. Boston, MA. 10/2009

Invited speaker, The Health Effects of Ambient Air Pollution. Health and Community Impacts of Intermodal Railyards and Distribution Centers Community Meeting. Gardener, Kansas. 8/2009

Invited speaker, British Columbia Environmental and Occupational Health Research Network Spring Workshop: Developing Research Opportunities Around the 2010 Games: Focus on Public Health and Environmental Sustainability, Vancouver, British Columbia. 5/2009

National and International Service (Continued):

Invited speaker, Impact of Improved Air Quality During the 1996 Atlanta Olympic Games on Multiple Cardiorespiratory Outcomes. Health Effects Institute Annual Meeting, Portland, OR.	4/2009
Associate Editor, <i>Environmental Health Perspectives</i>	5/2009 – present
Invited Speaker, 24 th Annual Clean Air Conference Boulder, Colorado	09/2008
Editorial Board, <i>Environmental Health Perspectives</i>	2/2008 – 5/2009
Expert writer, US EPA CO Integrated Science Assessment	06/2008 – present
Expert writer, US EPA Ozone Integrated Science Assessment	05/2009 – present
Invited panel member, US EPA PM Health Effects Workshop, Durham, NC	6/2008
Invited panel member, US EPA NO _x / SO _x Health Effects Workshop, Durham, NC	2/07
Invited panel member, US EPA CO Health Effects Workshop, Durham, NC,	1/2008
Invited reviewer, National Research Council report, <i>Estimating Ozone Mortality Risk Reduction Benefits of Air Pollution Regulations</i>	1/2008
Abstract Reviewer Society for Epidemiologic Research Annual Conference	2/2007 – present
Mentoring Committee (Liaison to Communications Committee) American College of Epidemiology Developed proposal for mentoring award; organized session for 2007 annual meeting	10/2006 – present
Journal reviewer <i>Journal of the American Medical Association, The Lancet, Epidemiology, American Journal of Epidemiology, Environmental Health Perspectives, Environmental Research, American Journal of Respiratory and Critical Care Medicine, Chest, Australian and New Zealand Journal of Public Health, BMC Public Health, International Journal of Biometeorology</i>	
Grant Review Service:	
National Institutes of Health (NIEHS) Children's Environmental Health Center Review Committee (P01 and P20 reviews)	7/2009

VI. PROFESSIONAL MEMBERSHIPS AND ACTIVITIES

American Association of Aerosol Research

Conference Platform Session Co-Chair, 2010 Health Effects meeting

American College of Epidemiology (Mentoring Committee; Liaison to the Communications Committee)

International Society for Environmental Epidemiology

Conference Oral Symposium Co-Chair, 2009 Annual Meeting, Dublin, Ireland

Invited Speaker, New Researchers Network Workshop, 2009 Annual Meeting

Society for Epidemiologic Research (member)

American Public Health Association (member)

Colorado Public Health Association (member)

Colorado Environmental Health Association (member)