

DEREK G. SHENDELL
Curriculum Vitae
(Last updated January 30, 2007)

EDUCATION

University of California, Los Angeles, School of Public Health, Los Angeles, CA. February 2003

DEnv, Environmental Science and Engineering Program

Dissertation: "Assessment of Organic Compound Exposures, Thermal Comfort Parameters, and HVAC System-Driven Air Exchange Rates in Public School Portable Classrooms in California."

Multidisciplinary curriculum included environmental health and sciences related to human and ecological risk assessment and management, policy and law, and engineering (air pollution, drinking water, wastewater treatment, hazardous waste).

Yale University School of Medicine, Department of Epidemiology and Public Health,
New Haven, CT. May 1998

MPH "with *Distinction*" in Environmental Health Sciences (Epidemiology, Policy)

Master's Thesis: "PM2.5 Exposure Assessment and Source Apportionment: Guatemala"

Multidisciplinary course work included environmental health, exposure assessment, biostatistics, toxicology and environmental physiology, epidemiology, international and domestic health policy, environmental law, environmental economics, and the interaction of populations (human, ecological), environment and development.

Dartmouth College, Hanover, New Hampshire. June 1996

AB, Chemistry with Environmental Studies, *cum laude*, minor in Spanish: U.S. Hispanic/Latin American Literature

Universidad Autónoma de Querétaro, Escuela de Idiomas, Querétaro, México. Winter 1994.

EXPERIENCE

9/05-present Institute of Public Health (IPH), College of Health and Human Sciences, Georgia State University (GSU), Atlanta
Assistant Professor, full-time tenure-track position; part-time 9-12/05 only

Teach four semester-long courses and one independent study/directed readings (PH 8910) in 2006-2007 including three newly developed courses (Indoor/Outdoor Air Quality and the Environment and Health (PH 7155), Environmental Epidemiology (PH 7295)) and Emerging Topics in Occupational and Environmental Health (PH7298, "writing across the curriculum" certification). Updated and finalized core MPH curriculum class (Introduction to Environmental Public Health Sciences, PH 7150). Initiated and led development and communications with local partners and GSU IPH staff as Principal Investigator of novel community / school-based pilot educational intervention research funded by GSU (7/2006-8/2008), with federal sources pending. Principal investigator of multi-university, domestic/international collaboration, the "Atlanta (Georgia) - Ibadan (Nigeria) Partnership for Prevention Sciences Training, Urban Environmental Quality and Community Health," with GSU International Strategic Initiatives funding (7/2006-6/2007) and federal (NIH Fogarty International Center) and private foundation sources pending for 6/2007-6/2012. Co-principal investigator of "GSU-GA Marathon, LLC Partnership for Interdisciplinary Assessments of Recreational Endurance Athletes: Pilot Study at Inaugural 2007 ING GA Marathon events" planned and conducted (data collected) 9/06-4/07.

May 2005-present Central Valley Health Policy Institute, California State University, Fresno

Interdisciplinary Health Policy Research Fellow

Led development and communications with local (Central CA) and state partners as co-Principal Investigator of two pending community-based participatory research proposals to the National Institutes of Health/National Institute of Environmental Health Sciences (R03, pilot studies), on adult environmental health literacy and investigator-initiated schools-based research.

7/1/05-1/3/06 Community Action to Fight Asthma (CAFA-II), CA State Projects Office, Berkeley, CA

Director of State Projects Office and CAFA Statewide Sciences Consultant (50% FTE 8/1/05-1/3/06)

2/23/04-7/1/05 Community Action to Fight Asthma Initiative (CAFA-I), CA State Coordinating Office, Oakland, CA

Interim Executive Director (10/29/04-6/30/05), Director, Environmental Health Sciences & Education (2/23-6/6/04)

Provided technical assistance supporting a network of four regional centers and local asthma coalitions (LCs; 12 funded, 32 total) working, through policy and environmental interventions in homes and schools, to reduce environmental triggers of childhood asthma (indoor and outdoor air pollution, biological and chemical allergens, diesel exhaust particles). For 2/1-6/30/05, conducted complete technical assistance to LCs in Central CA (three funded, eight total). Part of team that designed and authored two printed newsletters and a "Briefing Kit" (thousands distributed). For the "Briefing Kit," conducted final technical editing and was primary author of fact sheets with "best practices" and science summaries based on hundreds of peer-reviewed papers and reports.

Co-author and project manager for publication and dissemination of data projects on asthma hospitalization rates by legislative

districts and by postal zip codes. First author of the *CAFA California Asthma Advocacy Data Book*, and led its dissemination. First author of an invited “case study,” submitted to a major peer-reviewed school health journal. Co-author on “CAFA Case Studies Book,” a project to be completed and published fall 2005. Wrote and disseminated ten electronic newsletters (hundreds on e-mail distribution list) 7/04-6/05. Assisted in maintenance of, and contributed news and scientific resource postings to, the organization’s Internet pages, e.g., summarized new scientific papers for use by general public. Organized and conducted several series of topical conference calls and helped plan and conduct in-person meetings for CAFA grantees. Co-composed fact sheets (English, Spanish) and a proclamation, approved by Board of Supervisors, for Contra Costa County to recognize World Asthma Day in May 2004. Co-led, with health educator from “California Breathing” (state health department initiative), day-long school indoor air and environmental quality (IAQ) trainings in four regions of CA—conducted seminars (in English and in Spanish), including guest speakers, and “hands-on” school site visits with walk-through surveys. Co-author of “letters to editor” on asthma and school IAQ submitted to Bay Area and Sacramento newspapers.

11/6/00-3/2/04 Lawrence Berkeley National Laboratory (U.S. DOE, Univ.CA), Berkeley, CA

Senior Research Associate (for 1/2003-3/2/04 only, 60-80% FTE), Visiting Research Scientist (3/5/04-12/31/05)

Conducted, with multidisciplinary team of environmental health scientists and engineers, school studies in California, Washington and Idaho including indoor air quality, noise, ventilation, thermal comfort, and energy efficiency in relocatable classrooms; ventilation and attendance; traffic measures and respiratory health. Developed monitoring schedule and protocols and a new thermal comfort assessment for teachers and students. Maintained effective stakeholder collaborations. Led conduct of field work. Conducted chemical extractions and analyses of aldehyde samples. Managed and conducted statistical analyses of the data. Authored reports and conference presentations. Purchased supplies and monitoring equipment, and managed a LBNL project credit card account. Completed environmental health and safety training, and updated certifications. Served as overall coordinator and scientific/technical editor for research program proposals, winter 2003. Co-investigator for multidisciplinary proposal on the efficacy of a community-level UV light-based drinking water treatment system with respect to epidemiology (prevalence of child diarrhea), exposure assessment (potential recontamination of water), and socio-cultural and economic factors (community and household levels); funded pilot study was conducted 9/03-8/04.

9/03-8/04 Healthy Schools Network, Albany, NY

Independent Contractor/Environmental Health Scientist

Composed a science review paper, to accompany a staff policy “white paper,” on school indoor air and environmental quality including recommendations to mitigate or prevent potentially unhealthful conditions and enhance occupant performance. Final products were delivered to the NY State Legislature in winter 2004. Science review paper, as condensed form, submitted winter 2004, and accepted in summer 2004, to a peer-reviewed journal targeting school health stakeholders and researchers.

4/03-5/04 Children’s Environmental Health Network, Washington, D.C. and Berkeley, CA

Environmental Health Investigator on staff (write/review proposals only; no compensation)

12/02-12/03 California Department of Health Services, EHLB-IAQ Section, Berkeley/Richmond, CA

Research Scientist/Database Manager (contractor through PHFE, Inc.); part-time 20-40%

Reviewed, managed, and conducted statistical analyses of data on biological agents collected in indoor and outdoor air, dust and wet and dry source samples including surface swabs, and building characteristics, temperature and humidity, from the 1994-1998 U.S. EPA BASE Study. Authored meeting notes and conference presentations, and co-authored reports.

7/99-11/00 UCLA School of Public Health, Integrated Environmental Sciences, Irvine, CA

Project Manager and Research Team Leader

Worked on field, laboratory, and data entry components of the national Relationship among Indoor, Outdoor, and Personal Air Concentrations (RIOPA) Study of PM_{2.5} and air toxics for the Los Angeles County, CA site. Responsible for significant contributions to survey refinement, selection of target communities, participant selection criteria and recruitment methodology, and development of coding and a protocol for the management and analyses of the participant’s time-location-activity pattern data. Managed daily operations of RIOPA, including contact with collaborators to ensure a standard protocol and sample management. Developed a methodology with UCLA epidemiologists to measure and assess potential relationships between indoor and outdoor carbon monoxide, traffic density, and adverse birth outcomes.

5/98-8/98 National Center for Environmental Health, U.S. CDC, Birth Defects and Genetic Diseases, Chamblee, Georgia

ATPM “Short-term Training” Summer Fellow, Environmental Exposure Assessment

Worked on a study about potential relationships between birth defects and public drinking water disinfection byproducts. Led data abstraction, entry and management activities via on-site collaborations with water treatment facilities. Co-authored questionnaire for Metropolitan Atlanta Birth Defects Risk Factor Study to assess exposure of mothers and fetuses to pollutants.

2/97-5/98 Instituto de Nutrición de Centro América y Panamá (PAHO),

Guatemala City, Guatemala, and Yale University School of Medicine, New Haven, CT

Principal Investigator, Field and Laboratory Technician, Database Manager/Analyst

Developed a methodology, ordered and prepared equipment and supplies, and attained four independent sources of funding for a project on ground-level ambient fine particle air pollution, carbon monoxide, and trace elements in urban Guatemala.

1/97-5/97 Yale-New Haven (CT) Hospital, Children's Health Advocacy People

Student Researcher/Conference Coordinator, Yale-Sponsored Research

As part of a multidisciplinary organizing committee, directed the Building Coalitions for Connecticut Children conference (4/3-4/97). Led efforts to publish a comprehensive, cross-referenced guide to New Haven's community organizations.

1/95-3/95 Duke University Medical Center, Durham, NC

Undergraduate student internship, orthopedic surgery and pediatric sports injury assessment and prevention (unpaid)

PROFESSIONAL MEMBERSHIPS AND SELECTED ACTIVITIES

- Member of the American Public Health Association and Environment section, 1996-present
Elected by peers nationwide to be Environment Section Governing Council Representative 2006-07, Newsletter Editor 2004-06, Secretary for 2004-05, and Secretary-elect for 2003-04.
- Member, International Society of Exposure Analysis, 1999-present
Elected by peers to be Student Councilor on Executive Board, 7/01-6/02.
- Member, International Society of Environmental Epidemiology, 1/03-1/04.
- Peer-reviewer for *American Journal of Public Health*, *Energy and Buildings*, *Journal of Exposure Analysis and Environmental Epidemiology*, *Environmental Research*, *Indoor Air*, and APHA annual conference abstracts (2002-present).
- Member of California interagency working groups on indoor air quality, relocatable classrooms, and school studies (2001-04)
- Member of the Contra Costa County (CA) Asthma Coalition, 1/03-10/05:
2004 World Asthma Day work group (1/04-5/04);
Member of Planning Committee (9/04-7/05); and,
Member of the Technical Advisory Group for grant-funded projects (10/04-12/05).

SKILLS AND LANGUAGES

- Proficient in Spanish (reading, writing, and public speaking)
- Microsoft Office, and SAS (v.6&8, Enterprise Guide v.1.0-1.3), and some GIS experience.

SELECT AWARDS AND FELLOWSHIPS

- "Interdisciplinary Health Policy Research Fellowship," California State University at Fresno, May 2005-December 2005.
- Led application for and receipt of CAFA Initiative's "USEPA Children's Environmental Health Recognition Award," 2005
- "Emerging Public Health and Environmental Health Leader," delegate, U.S. CDC/NCEH national conference, 12/1-5/03.
- "Outstanding Performance Award" and monetary bonus, E.O. Lawrence Berkeley National Laboratory, July 2003.
- STAR Graduate Fellowship, USEPA/ORD/NCERQA Health Risk Assessment (focus on children ages 5-18), 9/98-9/01.
- University Chancellor's Fellowship, University of California, Los Angeles (UCLA), 1998-2002.
- UCLA Center for Environmental Risk Reduction, research training fellowship, 1/00-7/2000.
- "Improving Public Health in Southern California" Wilson Endowment, Community Health Sciences, UCLA, 7/99-3/00.
- Wilbur Downs International Health Student Travel Fellowship, Yale University, 1997.

SELECT VOLUNTEER WORK AND OTHER EXTRACURRICULAR ACTIVITIES

- Faculty, Sigma Phi Epsilon National Fraternity Educational Foundation, Carlson Leadership Academy, fall 2003-present
- Part-time paid staff member, Fleet Feet Sports-Pleasant Hill (CA) running/triathlon/fitness store, and running team, 3/04-12/05.
- Taught environmental and public health education classes on pollutant and noise measurements, energy efficiency, and general science overviews through LBNL, and nutrition and safe sex practices through Yale University School of Medicine
- Edited or translated (to Spanish) doctor-patient interactions, environmental education materials, and public meeting notices for Yale-New Haven Hospital, Children's Health Environmental Coalition, and Action Now (CA)
- *Argentine Delegation Host & Interpreter*, Special Olympics World Games, New Haven, CT, July 1995.
- *Student representative*, Yale University School of Medicine International Health Committee, 1997-98.
- Completed indoor cycling coaching certifications with Schwinn-Nautilus and 24-Hour Fitness, winter 2004.
- Recreational competitive athlete in running (5K-10K-1/2 marathon), road biking (50 miles-100 km), tennis (USTA, ALTA).

Peer-reviewed journal manuscripts published (or “in press”)

Naumova YY, Eisenrich S, Turpin, BJ, Weisel, CP, Morandi, MT, Colome, SD, Totten, LA, Stock, TH, Winer, AM, Alimokhtari, S, Kwon, J, Shendell, D, Jones, J, Maberti, S, Wall, SJ. 2002. Polycyclic Aromatic Hydrocarbons in the Indoor and Outdoor Air of Three Cities in the U.S. *Environmental Science and Technology*, 36 (12): 2552-2559.

Shendell DG and Naeher LP. 2002. A Pilot Study to Assess Ground-level Ambient Air Concentrations of Fine Particles and Carbon Monoxide in Urban Guatemala. *Environment International*, 28 (5): 375-382.

Naumova YY, Offenberg JH, Eisenreich SJ, Meng Q, Polidori A, Turpin BJ, Weisel CP, Morandi MT, Colome SD, Stock TH, Winer AM, Alimokhtari S, Kwon J, Maberti S, Shendell D, Jones J, Farrar C. 2003. Gas/particle distribution of polycyclic aromatic hydrocarbons in coupled outdoor/indoor atmospheres. *Atmospheric Environment*, 37: 703-719.

Shendell DG. 2003. Airing HVAC Concerns. *School Planning and Management*, 42 (7): MB 7-10.

Shendell DG, Winer AM, Colome SD, Stock TH, Zhang L, Zhang J, Maberti S. 2004. Air concentrations of VOCs in portable and traditional classrooms: Results of a pilot study in Los Angeles County. *Journal of Exposure Analysis and Environmental Epidemiology*, 14 (1): 44-59.

Shendell DG, Winer AM, Colome SD, Weker R. 2004. Evidence of inadequate ventilation in portable classrooms: Results of a pilot study in Los Angeles County. *Indoor Air*, 14 (3): 154-158.

Shendell DG, Prill, RP, Fisk WJ, Apte MG, Blake D, Faulkner D. 2004. Associations between classroom CO₂ concentrations and student attendance in Washington and Idaho. *Indoor Air*, 14 (5): 333-341. (LBNL-54413)

Shendell DG, Barnett C, Boese S. 2004. Science-based Recommendations to Prevent or Reduce Potential Exposures to Biological, Chemical, and Physical Agents in Schools. *Journal of School Health*, 74 (10): 390-396.

Hodgson AT, Shendell DG, Fisk WJ, Apte MG. 2004. Comparison of Predicted and Derived Measures of Volatile Organic Compounds inside Four Relocatable Classrooms due to Identified Interior Finish Sources. *Indoor Air*, 14 (Suppl 8): 135-44. (LBNL-52520)

Reff A, Porcja R, Giovanetti R, Turpin BJ, Weisel C, Morandi M, Stock T, Colome S, Winer A, Spektor D, Alimokhtari S, Kwon J, Maberti S, Shendell D, Jones J. 2003. FTIR spectra of outdoor, indoor, and personal air collected during RIOPA study. *Indoor Air*, 15 (1): 53-61.

Meng QY, Lee JH, Giovanetti R, Cui W, Turpin BJ, Korn L, Weisel C, Morandi M, Stock T, Colome S, Winer A, Spektor D, Alimokhtari S, Kwon J, Maberti S, Shendell D, Jones J. 2003. Indoor/outdoor relationships of PM_{2.5} mass concentration: results from the RIOPA study. *Journal of Exposure Analysis and Environmental Epidemiology*, 15 (1): 17-28.

Weisel CP, Zhang J, Turpin BT, Morandi MT, Colome S, Stock TH, Spektor DM, Korn L, Winer A, Alimokhtari S, Kwon J, Mohan K, Harrington R, Giovanetti R, Cui W, Afshar M, Maberti S, Shendell D. 2005. The Relationships of Indoor, Outdoor and Personal Air (RIOPA) Study: Study Design, Methods and Initial Results. *Journal of Exposure Analysis and Environmental Epidemiology*, 15 (2): 123-37.

Yamamoto N, Kumagai K, Fujii M, Shendell DG, Endo O, Yanagisawa Y. 2005. Size Dependent Collection of Micrometer-Sized Particles Using Nylon Mesh. *Atmospheric Environment*, 39: 3675-3685.

Polidori A, Turpin B, Meng Q-Y, Lee J-H, Weisel CP, Morandi M, Colome SD, Stock T, Winer AM, Zhang J, Kwon JM, Alimokhtari S, Shendell DG, Jones J, Farrar C, Maberti S. 2006. Indoor and Outdoor Organic PM_{2.5}: Analysis the RIOPA Study Data. *Journal of Exposure Analysis and Environmental Epidemiology*, 16 (4): 321-31.

Shendell DG, Rawling M-M, Foster C, Bohlke A, Edwards B, Rico S, Felix J, Eaton S, Roberts EM, Love MB. 2006. The Outdoor Air Quality Flag Program in Central California: A School-Based Educational Intervention to Reduce Children's Exposure to Environmental Asthma Triggers. *Journal of Environmental Health*, in press (for July or October 2007 issue).

Peer-reviewed journal manuscripts, “submitted” and in peer-review

Shendell DG and Pike-Paris A. 2006. Environmental Exposure Assessment, Pollution Sources, and Exposure Agents: A Primer for Pediatric Nursing Professionals. *Pediatric Nursing*, submitted for publication (peer-reviewed, revisions sent for decision).

Boothe VE and Shendell DG. 2006. Potential Health Effects Associated with Residential Proximity to Freeways and Primary Roads: Review of Scientific Literature 1999-2006. *Journal of Environmental Health*, submitted for publication (in peer-review).

NOTE: OTHER “RIOPA STUDY” PAPERS ARE IN DEVELOPMENT AT RUTGERS UNIVERSITY (I AM COAUTHOR)

Trade journals and magazines, peer-reviewed and/or editorial board reviewed

Apte MG, Dibartolomeo D, Hotchi T, Hodgson AT, Lee SM, Liff SM, Rainer LI, Shendell DG, Sullivan DP, Fisk WJ. 2003. Simultaneous Energy Savings and IEQ Improvements in Relocatable Classrooms. *ASHRAE IAQ Applications*, 4 (4): 7-10. (LBNL-52690).

Apte MG, Shendell DG, Hodgson AT. 2004. Modular Buildings: Air Awareness: Making sure your relocatable classrooms are energy efficient and have good IAQ. *American School and University*, 76 (6): 42-47. (February 2004 issue)

Peer-reviewed, approved federal government reports

Hodgson AT, Fisk, WJ, Shendell DG, and Apte MG. 2001. Predicted Concentrations in New Relocatable Classrooms of Volatile Organic Compounds Emitted from Standard and Alternate Interior Finish Materials. Final Report for the California Energy Commission (HPCBS Element 6.2.2, PIER Program). Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, July 2001. LBNL-48490.

Apte MG, Delp WW, Diamond RC, Hodgson AT, Kumar S, Rainer LI, Shendell DG, Sullivan DP, Fisk WJ. 2001. Report on HVAC Option Selections for a Relocatable Classrooms Energy and Indoor Environmental Quality Field Study. Final Report for the California Energy Commission (HPCBS Element 6.2.2, PIER Program). Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, December 2001. LBNL-49026.

Shendell DG, Apte MG, Kim JC, and Smorodinsky S. 2002. Building Effective Partnerships for School Environment Assessments and Interventions. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, July 2002. LBNL-50377.

Shendell, DG, Di Bartolomeo, D, Fisk, WJ, Hodgson, AT, Hotchi, T, Lee, S-M, Sullivan, DP, Apte, MG, and Rainer, LI. 2002. Final Methodology for a Field Study of Indoor Environmental Quality and Energy Efficiency in New Relocatable Classrooms in Northern California. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, August 2002. LBNL-51101.

Shendell, DG. 2003. Assessment of Organic Compound Exposures, Thermal Comfort Parameters, and HVAC System-Driven Air Exchange Rates in Public School Portable Classrooms in California. University of California, Los Angeles, School of Public Health, D.Env. dissertation, February 21, 2003. LBNL-53804.

Hodgson AT, Shendell DG, Fisk WJ, Apte MG. 2003. Comparison of Predicted and Derived Measures of Volatile Organic Compounds inside Four Relocatable Classrooms due to Identified Interior Finish Sources. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, June 2003. LBNL-52520.

Shendell DG, Prill, RP, Fisk WJ, Apte MG, Blake D, Faulkner D. 2003. Associations between classroom CO₂ concentrations and student attendance. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, August 2003. LBNL-53586.

Mendell MJ, Lei Q, Cozen M, Shendell DG, Macher JM, Tsai F. 2003. Association of Airborne Moisture-Indicating Microorganisms with Building-Related Symptoms and Water Damage in 100 U.S. Office Buildings: Analyses of the U.S. EPA BASE Data. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, October 2003. LBNL-53908.

Rainer LI, Hoeschele MA, Apte MG, Shendell DG, Fisk WJ. 2003. Energy Savings Estimates and Cost Benefit Calculations for High Performance Relocatable Classrooms. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, December 2003. LBNL-54230.

Apte MG, Fisk WJ, Hodgson AT, Lee SM, Shendell DG, DiBartolomeo DD, Hotchi T, Sullivan D, Rainer LI. 2004. Final Report, Element 6 Task 2.2.1 of the High Performance Commercial Building Systems Program: Indoor Environmental Quality Benefits in New Relocatable Classrooms in Northern California. Berkeley, CA: E.O. Lawrence Berkeley National Laboratory, _____ 2004. LBNL-53961.

Peer-reviewed Published Papers in Proceedings: Regional, State, National, and International Conferences

Apte MG, Hodgson AT, Shendell DG, Fisk WJ, Delp WW, Diamond RC, Lee S-M, Rainer LI, Sullivan DP. 2002. Energy and Indoor Environmental Quality Relocatable Classrooms in Northern California. In *Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Vol. 2, Monterey, CA, 62-67. LBNL-49581.

Hodgson AT, Apte MG, Shendell DG, et al. 2002. Implementing Source Reduction Practices in Manufactured Houses and Schools to Reduce Concentrations of Volatile Organic Compounds. In *Proceedings of the 9th International Conference on Indoor Air Quality and Climate*, Vol. 3, Monterey, CA, 576-81. LBNL-49536.

Shendell DG, Macher JM, Tsai FC, Burton L. 2005. Airborne Bacteria and Fungi in 100 Large U.S. Office Buildings. In *Proceedings of 5th International Conference of Bioaerosols, Fungi, Bacteria, Mycotoxins and Human Health*, Saratoga Springs, NY, pages 492-97, in press.

Apte MG *et al.* 2004. "Designing Building Systems to Save Energy and Improve Indoor Environments: A Practical Demonstration," in *proceedings of the 2004 ACEEE Summer Study on Energy Efficiency in Buildings, August 22 - 27, 2004*, Pacific Grove, California. American Council for Energy Efficient Economy. LBNL-54859.

Apte MG, Spears M, Lai CM, Shendell DG. 2005. Improving Indoor Environmental Quality and Energy Performance of Modular Classroom HVAC Systems. In *Proceedings of Sustainable Buildings 2005*, Tokyo, Japan. LBNL-57277.

Peer-reviewed, Foundation and Board of Directors-approved reports and books

Shendell DG, Barnett C, Boese S. 2004. Science-based Recommendations to Prevent or Reduce Potential Exposures to Biological, Chemical, and Physical Agents in Schools. Albany, NY: Healthy Schools Network, Inc., March 2004. Available as PDF at: <http://www.healthyschools.org/documents/HPSchlsWhtPpr.pdf> or http://www.calasthma.org/admin/resources/show_resource/335/.

Shendell DG and Roberts EM. 2004. CAFA (Community Action to Fight Asthma Initiative) California Asthma Advocacy Data Book. Oakland/San Francisco, CA: CAFA & The California Endowment (TCE). Available from: http://www.calasthma.org/about_cafa/advocacy_databook/

Miller JL, Shendell DG, Love MB et al. 2005. Asthma and Environmental Advocacy in California: The Role of Health Coalitions: Lessons Learned From Community Action to Fight Asthma: 2002-2005. Oakland/San Francisco, CA: CAFA and TCE. Available from: http://www.calasthma.org/about_cafa/case_studies/

Peer-reviewed Abstracts from Regional, State, National, and International Conferences: Published in Proceedings or Journals

Shendell DG. Comprehensive, Multidisciplinary Assessment of Children's Personal, Outdoor, and Indoor Exposure to Particulate Matter in Southern California. *1999 Science to Achieve Results (STAR) Graduate Fellowship Conference Abstracts*. Washington, D.C.: U.S. EPA (ORD), July 1999. EPA/600/R-99/046

Shendell DG, Naeher LP, Smith KR, Boy E. A Rapid Exposure Assessment Protocol for PM_{2.5} and CO Concentrations and PM_{2.5} Source Apportionment in Smaller Developing-Country Cities with Limited Resources: Case Study in Guatemala. *The Role of Human Exposure Assessment in the Prevention of Environmental Disease*, September 22-24, 1999, Rockville, MD.

Shendell DG, Winer AM, and Colome SD. Assessment of Organic Compound Exposures and HVAC System Functioning in Public School Portable Classrooms, Los Angeles County, CA. Annual Workshop, University of CA Toxic Substances Training and Research Program, April 28-29, 2000, San Diego.

Shendell DG, Winer AM, and Colome SD. Assessment of Organic Compound Exposures and HVAC System Functioning in Public School Portable Classrooms, Los Angeles County, CA. Annual Workshop, Southern California section of Society for Risk Analysis, May 18, 2000, Los Angeles (UCLA).

Shendell DG, Colome SD, Winer AM, Sabin LD, Yamamoto N, Guillebaud C, Silverman S. An Assessment of Exposures to Indoor, Outdoor, and Personal Air Concentrations of Fine Particles and Air Toxics: RIOPA, Los Angeles County, CA site. *2000 Science to Achieve Results (STAR) Graduate Fellowship Conference Abstracts*. Washington, D.C.: U.S. EPA (ORD), July 2000. EPA/600/R-00/055.

Morandi MT et al. (co-author). Influence of Ambient Air on VOC Indoor Air Concentrations Within the RIOPA Study. 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Weisel CP et al. (co-author). Relationship Between Indoor, Outdoor, and Personal Air Concentrations of VOCs in the RIOPA Study. 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Zhang L et al. (co-author). Comparing Indoor, Outdoor, and Personal Concentrations Measured Using a DNPH-based Active Sampling Method with Those Measured Using a DNSH-based Passive Sampling Method. 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Shendell DG, Winer, AM, Colome, SD. Assessment of Organic Compound Exposures and HVAC Functioning in Public School Portable Classrooms in Los Angeles County, CA. 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Zhang J, Harrington RS, et al. (co-author) Distributions of Indoor, Outdoor, In-Vehicle, and Personal Concentrations of Carbonyl Compounds. 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Shendell DG, Colome SD, Winer AM, Sabin LD, Yamamoto N, Guillebaud C. Site Selection Methodology for Randomized Subject Recruitment in Los Angeles County, CA for the Relationship Among Indoor, Outdoor, and Personal Air Concentrations Study of Fine Particles and Air Toxics. Abstract written for and oral platform and poster presentations given at 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Turpin BT et al. (co-author) Indoor, Outdoor, and Personal Fine Particulate Matter During RIOPA. 10th Annual Meeting of the International Society of Exposure Analysis, Monterey, CA, October 24-27, 2000.

Turpin BT et al. (co-author) An Investigation of Indoor, Outdoor, and Personal Fine Particulate Matter Concentrations and Composition During the RIOPA Study. Annual meeting of the American Association for Aerosol Research, St. Louis, MO, November 2000.

Shendell DG, Winer AM, and Colome,SD. Assessment of Organic Compound Exposures, Thermal Comfort Parameters and HVAC Functioning Through Air Exchange Rates in Public School Portable Classrooms in California: Pilot Study, Los Angeles County. *2001 Science to Achieve Results (STAR) Graduate Fellowship Conference Abstracts*. Washington, D.C.: U.S. EPA (ORD), July 2001. http://es.epa.gov/ncerqa_abstracts/

Wilhelm M, Ritz B, Shendell DG, Winer AM. Comparing Monitoring Inside and Outside Homes for Carbon Monoxide to Exposure Measures Derived from Ambient Monitoring, Proximity to Roadways, and Traffic Density for Epidemiologic Health Effect Studies. 13th Annual Meeting of the International Society of Environmental Epidemiology, Munich, Germany, September 2001.

Shendell DG, Apte MG, Fisk WJ, and Hodgson AT. Linking Energy Efficiency and Indoor Environmental Quality to Provide Thermal Comfort and Reduce Children's Exposure to Volatile Organic Compounds: Demonstration Project in New Relocatable Classrooms at Northern California Public Schools. Children's Environmental Health II: A Global Forum for Action, Washington, D.C., September 8-11, 2001.

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