

WEN-WHAI LI, Ph.D., P.E., Q.E.P.

**PUBLICATIONS AND PRESENTATIONS (*Names in grey italic indicating research assistants/graduate advisees of W.W. Li*)**

**Journal Articles and Book Chapters (Peer Reviewed)**

1. *Raina, D.S.*, N.J. Parks, **W.-W. Li**, R. W. Gray, S. Dattner. 2005. An Innovative Methodology for Analyzing Digital Visibility Images in an Urban Environment. *J. of A&WMA*. (in-press).
2. **Li, W. -W.**, *N. Cardenas*, J. Walton, *D. Trujillo*, *H. Morales*, R. Arimoto, 2005. PM source identification at Sunland Park, New Mexico using a simple heuristic meteorological and chemical analysis. *J. of A&WMA*, 55:352-364.
3. Rincon, C.A., J.R. Anderson, *J.J. Bang*, J.C. Greenlee, K.E. Kelly, and **W.-W. Li**. 2005. Chapter I: Background and Recent Research on Particulate Matter in the Paso del Norte Border Region, in *The U.S. – Mexican Border Environment: An Integrated Approach to Defining Particulate Matter Issues in the Paso del Norte Region*, ed. R.C. Curry, K. Kelly, H. Meuzelaar, A. Sarofim, San Diego State University Press, San Diego, CA. SCERP Monograph Series 12:1-26.
4. **Li, W.-W**, *R. Orquiz*, R.M. Currey, *V. H. Valenzuela*, H.L.C. Meuzelaar, S. A. Sheya, A. Sarofim, J. Anderson, S. Banerji, J. Chow, J. G. Watson. 2005. Chapter III: Experimental Design, Methods, and Results of Ambient Particulate Matter Characterization in the Paso del Norte Region. in *The U.S. – Mexican Border Environment: An Integrated Approach to Defining Particulate Matter Issues in the Paso del Norte Region* ed. R.C. Curry, K. Kelly, H. Meuzelaar, A. Sarofim, San Diego State University Press, San Diego, CA. SCERP Monograph Series 12:79-112.
5. **Li, W.-W.**, *J.J. Bang*, R.R. Chianelli, M.J. Yacaman, *R. Orquiz*. 2005. Chapter IV: Characterization of Airborne Particulate Matter in the Paso del Norte (PdN) Air Quality Basin in El Paso-Juarez region: Morphology and Chemistry, in *The U.S. – Mexican Border Environment: An Integrated Approach to Defining Particulate Matter Issues in the Paso del Norte Region* ed. R.C. Curry, K. Kelly, H. Meuzelaar, A. Sarofim, San Diego State University Press, San Diego, CA. SCERP Monograph Series 12:113-130.
6. Pingitore, Jr. N.E., *T. Espino*, J. Gardea-Torresdey, J. Reynoso, **W.-W. Li**, R. Currey, R. Moss, B.E. Barnes, W.P. Machay, J. C. Zevallos, and I. Herrera. 2005. Chapter V: Toxic Metals in the Air and Soil of the Paso del Norte Region, in *The U.S. – Mexican Border Environment: An Integrated Approach to Defining Particulate Matter Issues in the Paso del Norte Region* ed. R.C. Curry, K. Kelly, H. Meuzelaar, A. Sarofim, San Diego State University Press, San Diego, CA. SCERP Monograph Series 12:131-172.
7. Meuzelaar H.L.C., N.S. Arnold, B. Nookala, G.M. Mejia-Velazquez, P.O. Medina,

- J. Ramses-Sanchez, **W.-W. Li**, J.J. Bang, H.J.S. Fernando, and S. M. Lee, 2005. Chapter VII: Estimating Particulate Matter Exposure Risks and Evaluating Health Effects of Evening Particulate Matter Peaks Using GIS-Referenced Data Fusion Methods: A Pilot Study, in *The U.S. – Mexican Border Environment: An Integrated Approach to Defining Particulate Matter Issues in the Paso del Norte Region* ed. R.C. Curry, K. Kelly, H. Meuzelaar, A. Sarofim, San Diego State University Press, San Diego, CA. SCERP Monograph Series 12:235-304.
8. *J. H. García*, **W.-W. Li**, J. Walton, R. Arimoto, C. Schloesslin, S. Sage, R. Okrasinski, J. Greenlee, 2004. Characterization and implication of potential fugitive dust sources in the Paso del Norte region, *Jl. Science of the Total Environment*, 325:95-112.
  9. *Paschold, H.*, **W.-W. Li**, *H. Morale*, J.W. Walton. 2003. Laboratory study of the impacts of evaporative cooler on PM concentrations, *Jl. of Atmospheric Environment*, 37:1075-1086
  10. **Li, W.-W.**, *H. Paschold, H. Morale, J. Chianelli*. 2003. Correlations between short-term indoor and outdoor PM concentrations at residences with evaporative coolers. *Jl. of Atmospheric Environment*, 37:2691-2703
  11. *Paschold, H.*, **W.-W. Li**, *H. Morale*, N.E. Pingitore, B. Maciejewska. 2003. Elemental analysis of airborne particulate matter and cooling water in West Texas Residences, *Jl. of Atmospheric Environment*, 37: 2681-2690
  12. *Arrieta D.E.*, C.C. Ontiveros, **W.-W. Li**, *J.H. Garcia*, M.S. Jacob, D. McDonald, S. W. Burchiel, and B.S. Washburn. 2003. Aryl hydrocarbon receptor-mediated activity of particulate organic matter from the Paso del Norte airshed along the U.S.-Mexico border, *Jl. of Environmental Health Perspectives*, 111(10):1299-1305.
  13. Parks, N. J., **W.-W. Li**, C.D. Turner, R. W. Gray, R. Currey, S. Dattner, J. Saenz, *V. Valenzuela*, and J. A. VanDerslice. 2002. Chapter 3: Air Quality in the Paso del Norte Airshed: Historical and Contemporary. *Air Quality on the U.S.-Mexico Border*.
  14. **Li, W.-W.**, *R. Orquiz*, N. E. Pingitore, Jr., *J.H. Garcia*, T. T. Espino, J. Gardea-Torresdey, J. Chow, J.G. Watson. 2001. Analysis of temporal and spatial dichotomous PM air samples in the El Paso-Cd. Juarez air quality basin. *J. of A&WMA* 51: 1511-1560.
  15. McFarland, A.R., C.A. Ortiz, J.E. Cermak, J.A. Peterka, and **W.-W. Li**. 1990. Wind tunnel evaluation of a rotating-element large-particle sampler, *Aerosol Science and Technology*, Vol. 12, No. 2, p 422-430.
  16. **Li, W.-W.**, and R.N. Meroney. 1985. Re-examination of Eulerian-Lagrangian

turbulence relationship. *Jl. of Atmospheric Environment* 19:853-855.

17. **Li, W.-W.**, and R.N. Meroney. 1984. Estimation of Lagrangian time scale from laboratory measurements of lateral dispersion. *Jl. of Atmospheric Environment* 18:1601-1611.
18. **Li, W.-W.**, and R.N. Meroney. 1983. Gas dispersion near a cubical model building, Part I: Mean concentration measurements. *Jl. of Wind Engineering and Industrial Aerodynamics* 12:15-33.
19. **Li, W.-W.**, and R.N. Meroney. 1983. Gas dispersion near a cubical model building, Part II: Concentration fluctuation measurements. *Jl. of Wind Engineering and Industrial Aerodynamics* 12:35-47.

#### **Conference Papers (Peer Reviewed)**

1. *Raina, D.S.*, Parks, N.J., **Li, W.-W.**, Gray, R. W., Dattner, S. 2004. Innovative monitoring of visibility using digital imaging technology in an arid urban environment. *Proceedings of the Regional and Global Perspectives on Haze: Causes, Consequences and Controversies*, Oct. 26-29, 2004, Asheville, North Carolina. 19 pages.
2. Turner, C. D., **W -W Li** and B. Flores. 2002. Using a green engineering building design contest to promote sustainable engineering. *Proceedings of the 2002 ASEE Annual Conference*.
3. Parks, N.J., **W.-W. Li**, *V. Borlepwar*, R.W. Gray, S. Dattner, *V. Valenzuela*. 2001. Variation of visual air quality in the Paso del Norte airshed. *Proceedings of the 94th AW&MA Annual Meeting and Exhibition*, Orlando, Florida. 15 pages.
4. Turner, C.D. and **W.-W. Li**. 2001. Developing sustainable engineering across a college of engineering. *Proceedings of the 2001 ASEE Annual Conference*, Albuquerque, New Mexico. 8 pages.
5. *R. Orquiz*, **W.-W. Li**, and N.E. Pingitore. 2000. Temporal measurements of PM fine and coarse concentrations in El Paso. *Proceedings of the 93rd AW&MA Annual Meeting and Exhibition*, Salt Lake City, Utah, June 18-22. Paper #. 00-745, 20 pages.
6. S.A. N. Sheya, H.L.C. Meuzelaar, et al., **W.-W. Li**, et al. 2000. Novel analytical dimensions in exploratory field studies of air particulate matter. *Proceedings of the 93rd AW&MA Annual Meeting and Exhibition*, Salt Lake City, Utah, June 18-22. Paper #. 00-669, 11 pages.
7. **Li, W.-W.**, *R. Orquiz*, N.E. Pingitore, *T.T. Espino*, J. Gardea-Torresdey, J.C. Chow, and J.C. Watson. 2000. Analysis of temporal dichotomous PM air samples in the PdN region. presented at *the Tropospheric Aerosols: Science*

*and Decisions in an International Community*, A NARTRO Technical Symposium on Aerosol Science, Queretaro, Mexico, Oct. 23-27. 2000. 27 pages.

8. **Li, W.-W.** 1999. Characterization of ambient PM concentrations in the Paso del Norte region. *Proceedings of the 92nd AW&MA Annual Meeting and Exhibition*, St. Louis, MO, June 20-24. Paper #. 99-192, 18 pages.
9. **Li, W.-W.** 1999. A refined consequence analysis of spill events at a chemical distribution facility. *Proceedings of the 92nd AW&MA Annual Meeting and Exhibition*, St. Louis, MO, June 20-24. Paper #. 99-102, 13 pages.
10. **Li, W.-W.**, M.E. Greenhalgh, and S.T. Washburn. 1994. Implementation of a risk-based air monitoring program using integrated and continuous air monitors. *Proceedings of the 1994 EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants*, p. 741-751.
11. **Li, W.-W.** and M. Long. 1993. Evaluating the impact of subsurface contaminants on indoor air quality using field measurements and estimates from a convective-diffusive transport model. *Proceeding of the 1993 EPA/A&WMA International Symposium on Measurement of Toxic and Related Air Pollutants*. p. 41-51.
12. **Li, W.-W.**, M.J. Firth, and R.H. Harris. 1992. Health risk reduction based on Monte Carlo simulation and air dispersion modeling at a chemical processing facility. In *Proceedings of the 85th Annual Meeting & Exhibition of the Air and Waste Management Association*, Kansas City, Missouri, June 21-24. Paper #. 92-149.03, 18 pages.
13. **Li, W.-W.**, C.F. Kleiman, M.J. Firth, M.A. Baviello, and J.H. Highland. 1991. An expert systems approach to screening environmental data at contaminated sites. *Proceedings of the 84th Annual Meeting of the Air & Waste Management Association*, Vancouver, British Columbia, June 16-21. Paper #. 91-119.11, 20 pages.
14. **Li, W.-W.**, M.P. Scott, and J.W. Bradstreet. 1990. Modeling of On-site Air Concentrations at Superfund Sites. *Superfund 90*, p. 117-122.
15. **Li, W.-W.** 1990. Estimation of air emissions utilizing indirect on-site emission measurements. *Proceedings of the 83rd Annual Meeting of the Air & Water Management Association*, Pittsburg, PA, June 24-29. Paper #. 90-82.3, 18 pages.
16. **Li, W.-W.**, and R.N. Meroney. 1985. Measurements of the two-point Eulerian velocity statistics in a turbulent boundary layer. In *Proceedings of the Seventh Symposium on Turbulence and Diffusion*, American Meteorology Society, Boulder, Colo., November.

### Technical Reports (Peer Reviewed)

1. U.S. Environmental Protection Agency (Li, W.-W., co-principal author). 1997. *Risk assessment for the Waste Technologies Industries (WTI) hazardous waste incineration facility (east Liverpool, Ohio). Volume VII: Accident analysis: selection and assessment of potential release scenarios*, EPA-905-R97-002g, May 1997.
2. U.S. Environmental Protection Agency (Li, W.-W., co-principal author). 1997. *Risk assessment for the Waste Technologies Industries (WTI) hazardous waste incineration facility (east Liverpool, Ohio). Volume VIII: Additional Analysis in Response to Peer Review Recommendations*, EPA-905-R97-002h, May 1997.
3. Li, W.-W. 1992. *Emissions from contaminated soil* (p. A-9 to A-12), in the *Air/Superfund National Technical Guidance Study Series – Assessing potential indoor air impacts for Superfund sites*. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards, EPA-451/R-92-002, September 1992.
4. Li, W.-W. and R. N. Meroney. 1984. *The estimation of turbulent diffusion from real time anemometer statistics*. CED83-84WWL12, and Report NUREG/CR-4072, U.S. Nuclear Regulatory Commission, Washington, D.C.
5. Li, W.-W., R. N. Meroney, and J.A. Peterka, 1981. *Wind-tunnel Study of Gas Dispersion near a Cubical Model Building*. NRC Report NUREG/CR-2395, U.S. Nuclear Regulatory Commission, NTIS, Washington, D.C.

### Selected Conference Papers and Presentations (Abstract Reviewed, F: Full Paper, P: Poster, O: Oral Presentation)

1. Li, W.W. and Garcia, J.H., 2005. Source identification by statistical analyses of surface soil concentrations. Presented at the 15<sup>th</sup> Annual Conference on Soils, Sediments, and Water, March 14-17, San Diego, CA. (O)
2. Garcia, J.H., Li, W.W., and Walton, J., 2005. Determination of PM composition and sources in the Paso del Norte Region Using Time-resolved Integrated Source and Receptor Models. Presented at the 9<sup>th</sup> International Congress on Combustion By-Products and their Health Effects, June 12-15, 2005, Tucson, AZ (O, F)
3. Olvera, H. and Li, W.W., 2004. Development of a visualization tool for chemical spill emergencies using simulated high-resolution wind fields, Paper presented in *ACHMM 2004 National Conference*, Aug. 1 – 4, Las Vegas, NV. (P)
4. Arimoto, R., W.-W. Li, N. Cardenas, J. Walton, D. Trujillo, H. Morales, S. Sage, C. Schloesslin, 2004. Investigations of the low wind particulate matter spikes at the Sunland Park, New Mexico monitoring site. Paper presented in *the 2004*

*Border Regional Environmental Conference*, Feb. 10 - 12, 2004, Laredo, TX. (O)

5. *Olvera, H.* and **W.-W. Li**, 2003. Development of a GIS-based area source emission inventory in the Paso del Norte air quality basin. Paper presented in *the North American Research Strategy for Tropospheric Ozone (NARSTO) Workshop on Innovative Methods for Emission Inventory and Evaluation*, Oct. 14 – 17, 2003, Austin, Texas. (O)
6. *Garcia, J. H.*, **W.-W. Li**, J. Walton, R. Arimoto, C. Schloesslin, S. Sage, R. Okrasinski, J. Greenlee, W. Gutman. 2003. Implications on contributing sources by chemical composition in regional surficial soil, Paper presented in *the North American Research Strategy for Tropospheric Ozone (NARSTO) Workshop on Innovative Methods for Emission Inventory and Evaluation*, Oct. 14 – 17, 2003, Austin, Texas. (O)
7. *Cadenas, N.*, **W.W.- Li**, J. Walton, R. Arimoto, *H. Morales, D. Trujillo*. Characterization of the diurnal PM peaks at Sunland Park, New Mexico. Paper presented in *the North American Research Strategy for Tropospheric Ozone (NARSTO) Workshop on Innovative Methods for Emission Inventory and Evaluation*, Oct. 14 – 17, 2003, Austin, Texas. (O)
8. Zhang, H., J.S. Lighty, H.L.C. Meuzelaar, K. Kelly, D. Wagner, S.A. Cheya, A.F. Sarofim, J.D. Robertson, and **W.-W. Li**, 2002. Combustion-related particulate matter source attribution in the Paso del Norte air basin using multivariate analysis of organic and inorganic speciation data. Paper presented in *the Western State Combustion Institute Meeting*, March 25-26, University of California at San Diego, La Jolla, California, 2002. (F, O)
9. *Paschold, H.*, *H. Morales*, **W.-W. Li**, and J. Walton. 2002. Field study of the impact of evaporative coolers on PM concentrations. Paper presented in *the Rio Bravo/Rio Grande Environmental Conference*, South Padre Island, Texas, Feb. 20 – 23, 2002. (F,O)
10. *Paschold, H.*, *H. Morales*, **W.W. Li**, and J. Walton. 2002. Evaporative cooler effects on indoor PM concentrations under laboratory conditions. Paper presented in *the Rio Bravo/Rio Grande Environmental Conference*, South Padre Island, Texas, Feb. 20 – 23, 2002. (F,O)
11. *Gonzalez, L.*, **W.W. Li**, *W. Rivera-Rio*, T.H. Stock, and M.T. Morandi. 2002. Exploratory investigation of indoor and outdoor VOC in Paso del Norte residences. Paper presented in *the Rio Bravo/Rio Grande Environmental Conference*, South Padre Island, Texas, Feb. 20 – 23, 2002. (F,O)
12. *Bolepwar, V.V.*, N.J. Parks, **W.W. Li**. 2002. Cost-effective digital imaging technology for visibility analysis in urban and wilderness areas of the U.S.-Mexico border region. Paper presented in *the Rio Bravo/Rio Grande Environmental*

Conference, South Padre Island, Texas, Feb. 20 – 23, 2002. (F,O)

13. Meuzelaar H., Lighty J., H. Zhang, K. Kelly, D. Wagner, W. Jarman, C. Kasteler, A. Sarofim, **W. W. Li**, *J. Garcia*, T. Espino, G. Mejia-Velazquez, J. Sanchez, 2001. Collection, characterization, attribution and apportionment of particulate matter in the Paso del Norte air basin. *The 2001 SCERP Conference: Promoting Policies to Implement the Vision*. October 17-19, 2001, Universidad Autonoma de Baja California, Mexico. (O)
14. *Garcia, J.*, **W. W. Li**, J. Walton, 2001. Multivariate analysis of wintertime inorganic PM data. *The 2001 SCERP Conference: Promoting Policies to Implement the Vision*. October 17-19, 2001, Universidad Autonoma de Baja California, Mexico. (O)
15. **Li, W. W.**, N. Pingitore, Moss, R., *Garcia, J.*, Espino, T., Morales, H., Currey, R., 2001. Gradient monitoring of airborne PM to evaluate re-entrainment of metals. *The 2001 SCERP Conference: Promoting Policies to Implement the Vision*. October 17-19, 2001, Universidad Autonoma de Baja California, Mexico. (O)
16. West, K.A., S.W. Kirschner, **W.W. Li**, 2001. Novel approach to the use of geologic and soil-gas sampling data in risk assessment - A case study using an advective-diffusive emission model. Presented in *the Geological Society of America Annual Meeting & Exposition - 2001*, November 5 - 8, 2001, Boston, Massachusetts. (F, O)
17. Turner, C.D., **W.W. Li**, A. Martinez, 2001. Developing sustainable concepts in a College of Engineering, *Green Engineering Conference: Sustainable and Environmentally Conscious Engineering*, July 29 - Aug. 1, 2001. Virginia Polytechnic Institute and State University, Blacksburg, VA. (F, O)
18. **Li, W.W.** 2001. Characterization of atmospheric PM in the Paso del Norte air quality basin, *Extraordinary Joint Advisory Committee Meeting in Honor of Dr. Mario Molina*, El Paso, Texas, May 7, 2001. (O)
19. *Arrieta, D.E.*, C.C. Hernandez, *J.H. Garcia*, **W.-W. Li**, M.S. Denison, B.S. Washburn. 2000. Aryl hydrocarbon receptor-mediated effects of particulate organic matter in the Paso del Norte airshed along the U.S. - Mexico. presented at *the 40th Annual Meeting of the Society of Toxicology*, Nashville, TN. (F, O)
20. *Orquiz, R.*, **W.-W. Li**, *J. Garcia*, N. Pingitore, T. Espino, and J. Chow. 2000. Analysis of temporal and spatial dichotomous PM air samples in the El Paso-Cd. Juarez air quality basin, presented in *the U.S.-Mexico Border: A Continuum of Ideas Addressing Environmental Issues, the 2000 SCERP Technical Conference*, Cd. Juarez, Chihuahua, Mexico. (O)
21. Muezeelaar, H., J. Lighty, A. Sarofim, W. Jarman, S. Jeon, S. Sheya, C. Kasteler,

- J. Anderson, D. Perry, **W.-W. Li**, V. Valenzuela, G. Mejia, M. Perez, B. Simoneit. 2000. Progress towards identification and apportionment of particulate matter sources in the Paso del Norte Airshed, presented in *the U.S.-Mexico Border: A Continuum of Ideas Addressing Environmental Issues, the 2000 SCERP Technical Conference*, Cd. Juarez, Chihuahua, Mexico. (O)
22. *Garcia, J.*, J. Walton, **W.-W. Li**. 2000. Relationship between meteorological parameters and ozone, El Paso, Texas/Cd. Juarez, Chihuahua. *ASCE Texas Section Fall 2000 Meeting*, Oct. 4 -7, 2000, El Paso, Texas. (F, O)
23. *Chianelli, J.*, **W.-W. Li**, L. Ledesma, Z. Yang, R. Gray. 2000. Rapid assessment of chemical spills for international communities. *ASCE Texas Section Fall 2000 Meeting*, Oct. 4 -7, 2000, El Paso, Texas. (F, O)
24. *Orquiz, R.*, **W.-W. Li**, N. Pingitore, and I. Becerril. 1999. Evaluation of temporal PM fine and coarse concentrations in El Paso, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
25. *Becerril I.*, **W.-W. Li**, K. G. Gallardo. 1999. Implication of potential PM sources based on hourly meteorological and PM concentration data in El Paso, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
26. *Espino, T.T.*, J. Gardea-Torresdey, **W.-W. Li**, and N. Pingitore. 1999. Multi-elemental compositions of particulate in PM<sub>2.5</sub> and PM<sub>10</sub> filters from the Paso del Norte airshed, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
27. Sheya, S. A. H. Meuzelaar, Dworzanski, J., **W.W. Li**, et al. 1999. Multivariate approach to PM characterization and attribution in the Paso del Norte airshed, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
28. **Li, W.-W.**, et al. 1999. An expert systems approach to managing and minimizing the consequence of accidental chemical spills in the U.S. – Mexico border region, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
29. *Pearson R.*, F. Mercado, H. Aguilar, R. Fitzgerald, and **W.-W. Li**. 1999. Characterization of wind field for the Paso del Norte airshed using high-resolution grids and Data from multiple meteorological monitoring stations, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
30. *Castro, N.J.* and **W.-W. Li**. 1999. Evaluation of ozone air quality data collected



from six sites in the Paso del Norte air basin, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)

31. Parks, N.J., **W.-W. Li**, R.W. Gray, C.D. Turner, S.L. Dattner, J. Saenz, and V. Valenzuela. 1999. Haze and visibility analysis in the Paso del Norte airshed: 1998 - 1999, presented in *the U.S.-Mexico Border: An Exchange of Ideas, the 1999 SCERP Technical Conference*, Las Cruces, New Mexico. (P)
32. R. Gray and **W.-W. Li**. 1998. Dynamic integration of GIS and emission inventory within the Paso del Norte air quality basin. Presented in *AW&MA Emission Inventory: Living in a Global Environment Conference*, New Orleans, LA. (F, O)
33. **Li, W.-W.** 1994. Use of a risk-based methodology for acquisition of recreational land in New Jersey. In *Proceedings of the 2nd International Comparative Risk Analysis Symposium - Priority Setting of Environmental Issues*. Taipei, Taiwan, November 14-16. (F, P)
34. Hentz, K.L., Rosolowsky, L.J., **W.-W. Li**, and G. Lage. 1993. Case study comparison of reasonable worst-case and Monte Carlo simulation approaches to risk assessment. Paper presented at *the 1993 Annual Meeting of the Society of Toxicology*. Seattle, WA, Feb. (P, O)
35. Harnett, P.B., M.E. Greenhalgh, **W.-W. Li**, and M.J. Firth. 1993. Air dispersion modeling confirms lead air sampling results and assists in selection of respiratory protection at a Superfund site. Paper presented at *the 1993 American Industrial Hygiene Conference & Exposition*. New Orleans, LA, May. (F, O)
36. Washburn, S.T., **W.-W. Li**, and A. Nichols. 1993. Incineration, risk assessment and the Clean Air Act. Paper presented at *the 1993 Incineration Conference*, Knoxville, Tenn., April 30 - May 2. (F, O)
37. Washburn, S.T., and **W.-W. Li**. 1992. Risk assessment under 1990 New Clean Air Act Amendments. In *Proceedings of the First National Symposium on Permitting Under the Clean Air Act Amendments: Technologies at Work*, Washington, D.C., April. 21 pages. (F, O)
38. McFarland, A.R., J.E. Cermak, J.A. Peterka, C.A. Ortiz, and **W.-W. Li**. 1986. Evaluation of a rotating slotted-cylinder large particle sampler. *Proceedings of the 1986 Conference on Chemical Defense Research, U.S. Army, CRDC*, Aberdeen Proving Ground, Md., November. (F, O)

### **Selected Technical Reports**

1. Arimoto, R. and W.-W. Li, 2004. Investigations of the Low-wind Particulate Matter Spikes at the NMED Sunland Park City Yard Monitoring Site, Project Number A-02-01. Submitted to the Southwest Center for Environmental

Research and Policies. (13 pages).

2. Li, W.-W., Olvera, H. A., Morales, H., 2003. *Development of a Visualization Tool for Hazardous Releases – Rapid Assessment of Chemical Emergencies (RACE)*, Technical Report for the U.S. Army Research Laboratory White Sands Missile Range, Contract DATM05-02-P-0127, February 21, 2003. (37 pages)
3. Parks, N.J., R.W. Gray, W.-W. Li, 2002. *Visibility Research with the Texas Commission on Environmental Quality Camera System in the Paso del Norte and West Texas Regions 2001 - 2002*, Technical Report for the Texas Commission on Environmental Quality, Contract 582-2-48680, September 30, 2002. (57 pages)
4. Li, W.-W. and Paschold, H. 2002. *Determining the impacts of evaporative cooling systems on indoor air quality*, submitted to the ARP/ATP Program, Texas Higher Education Coordinating Board. (291 pages)
5. Li, W.-W., 2000. *Characterization of Ambient Particulate Matter in the Paso del Norte Region, Phase II: Data Enhancement*, in *Ten Years Retrospective of SCERP Program*, edited by D. Pijawka.
6. Parks, N.J. and W.-W. Li, 1999. *Digital Acquisition and Internet Distribution of Haze Images in the Paso del Norte Airshed*, Technical Report for the Texas natural Resources Conservation Commission for Contract 582-9-15892.
7. Kleiman, C.F., W.-W. Li, and A.H. Stern. 1994. *Development of a methodology for deriving risk-based soil guidelines for recreational exposure*. Paper submitted to J. of Ecotoxicology and Environmental Safety.
8. Environ Corp (W.W. Li, co-principal author). 1993. *Development of a methodology for interpreting environmental data from potential Green Acres sites – Final report. Vols. I and II*. Prepared for New Jersey Department of Environmental Protection and Energy, Division of Science and Research and Green Acres Program, Trenton, NJ., June 1993.
9. Li, W.-W., S.T. Thoroddsen, J.A. Peterka, and J.E. Cermak. 1987. *Experimental study of internal flow in a roasting kiln*, Technical Report for Adolph Coors Company, Golden, CO, July 1987, CER87-88WWL-STT-JAP-JEC2, Fluid Dynamics and Diffusion Laboratory, Colorado State University.
10. Li, W.-W., J.E. Cermak, J.A. Peterka, and Y.C. Liao. 1987. *Wind-tunnel study of exhaust-intake cross contamination and dispersion of roof-top emissions. The Health Science Center, University of Texas at San Antonio, San Antonio, TX*, Technical Report for the University of Texas at San Antonio, San Antonio, TX, June, CER86-87WWL-JEC-JAP-YCL3, Fluid Dynamics and Diffusion Laboratory, Colorado State University.

11. Li, W.-W., J.E. Cermak, and J.A. Peterka. 1986. *Wind-tunnel study of exhaust-intake cross-contamination and dispersion of roof-top emissions, Life Sciences Building, Emory University, Atlanta*, Technical Report for Rosser-Fabrap International, Atlanta, November, CER 86-87WWL-JEC-JAP10, Fluid Dynamics and Diffusion Laboratory, Colorado State University.
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