

Alan W. Gertler

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Division of Atmospheric Sciences
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Education

Ph.D. Physical Chemistry	1979	University of California, Los Angeles
B.S. Chemistry	1974	State University of New York, Albany

Experience

Dr. Gertler's research includes both laboratory and field studies of atmospheric chemistry with particular emphasis on the impact of mobile sources on the environment. His research at DRI has included characterization of factors affecting the rate and mechanism of SO₂ and NO_x oxidation in the atmosphere, wet and dry deposition processes, studies of chemical processes leading to "gas-to-particle" conversion, the effects of acids and their precursors on materials, fog and cloud droplet characterization, trace analysis of pollutants in air and water samples, and development of quality assurance procedures to ensure accuracy of wet and dry deposition data. In addition, he has investigated discrepancies between observed and predicted automotive emission factors, performed on-road measurements of CO, NO_x, speciated NMHC, dioxin, furan, PAHs, and organic and inorganic speciated PM_{2.5} and PM₁₀ emissions from on-road vehicles.

His current research includes the development of a microscopic chemical imaging technique to characterize particulates and bioaerosols, transboundary transport of pollutants, measurements and characterization of mobile source PM₁₀ and PM_{2.5} emissions, assessing the impact of highways on ambient gaseous and particulate pollutant levels, development of new methods to attribute observed PM levels to specific sources, assessing the magnitude and sources of atmospheric deposition in the Lake Tahoe basin, and the use and impact of alternative fuels for transportation and power generation. Dr. Gertler is currently the track leader for the SENSORS component of the Nevada NSF EPSCoR project and has served as principal investigator for the NREL-sponsored Hydrogen Deployment and Safety in Transportation Applications and Renewable Energy Hydrogen Based System for Off-Grid Applications projects, source attribution component of the USAID-sponsored Cairo Air Improvement Project, World Bank/NREL sponsored Hyderabad Source Apportionment Study, NCHRP-supported Road Sanding and Salting Effects on PM₁₀ and PM_{2.5} Emissions by On-Road Vehicles, and the SERDP-sponsored Development and Validation of a Predictive Model to Assess the Impact of Coastal Operations on Urban Scale Air Quality.

Background experience includes studies in photo-induced nucleation, photo-physical processes of molecules, and static and dynamic properties of liquid drops.

Professional Experience

1993 to Present	Research Professor, Division of Atmospheric Sciences and Energy and Environmental Engineering Center, Desert Research Institute.
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2007 to 2008	Interim Director, Division of Atmospheric Sciences, Desert Research Institute.
1995 to 2003	Director, Atmospheric Sciences Program and Vice Chair for Atmospheric Sciences, Department of Physics, University of Nevada, Reno.
1995	Associate Director, Atmospheric Sciences Program, University of Nevada, Reno.
1994	Acting Director, Energy and Environmental Engineering Center, Desert Research Institute.
1993	Acting Director, Atmospheric Sciences Program, University of Nevada, Reno.
1989–1993	Associate Research Professor, Energy and Environmental Engineering Center, Desert Research Institute.
1988 to Present	Member Graduate Faculty, University of Nevada, Reno.
1985–1989	Assistant Research Professor, Energy and Environmental Engineering Center, Desert Research Institute.
1979–1985	Assistant Research Professor, Atmospheric Sciences Center, Desert Research Institute.
1976–1979	Research Assistant, Department of Chemistry, University of California, Los Angeles.
1975–1976	Head Teaching Assistant, Department of Chemistry, University of California, Los Angeles.
1974–1975	Teaching Assistant, Department of Chemistry, University of California, Los Angeles.
1973–1974	Teaching Assistant, Department of Chemistry, State University of New York, Albany.

Memberships

Sigma Xi
Sigma Pi Sigma
American Chemical Society, Environmental Division
Air & Waste Management Association (A&WMA)

Awards and Honors

- President, International Union of Air of Pollution Prevention & Environmental Protection Agencies (IUAPPA) and the International Academy of Science, 2007–2010
- Outstanding Faculty Award, Board of Regents, University and Community College System of Nevada, 2001.
- Hope for the Future for a Sustainable World Award 2001, International Union of Air Pollution Prevention & Environmental Protection Agencies (IUAPPA) and the International Academy of Science, 2000.
- Alessandro Dandini Medal of Science, Desert Research Institute, 2000.
- Thomas Kuhn Medal, International Union of Air of Pollution Prevention & Environmental Protection Agencies (IUAPPA) and the International Academy of Science, 1998.
- Outstanding Faculty Award, Board of Regents, University and Community College System of Nevada, 1998/99.

Committees and Offices

- President the International Union of Air of Air Pollution Prevention & Environmental Protection Agencies (IUAPPA) (2007–present)
- Vice President the International Union of Air of Air Pollution Prevention & Environmental Protection Agencies (IUAPPA) (2005–2007)
- A&WMA, General Conference Chair, Geographic Information Systems (GIS) in Environmental Resources Management Specialty Conference, March, 1996
- A&WMA/EPA Technical Program Chair, Computing in Environmental Management International Conference December, 1996
- A&WMA/EPA Technical Program Chair, Computing in Environmental Management International Conference November, 1994
- Vice-Chair, A&WMA Basic Sciences Division (2002–2005)
- Chair, A&WMA Basic Sciences Division (2005–present)
- Secretary, A&WMA Technical Committee AB-2, Chemistry (1993–1996)
- Chair, A&WMA Technical Committee AB-2, Chemistry (1991–1993, 1996–1999)
- A&WMA Technical Committee AB-2, Chemistry
- A&WMA Technical Committee AS-1, Mobile Sources

Peer-Reviewed Publications

- Abu-Allaban, M. D.H. Lowenthal, A.W. Gertler, and M. Labib (2009). Sources of Volatile Organic Compounds in Cairo's Ambient Air, *Environmental Monitoring and Assessment*, **157**, 179-189.
- Broch, A., S.K. Hoekman, A. Gertler, C. Robbins, and M. Natarajan (2009). Biodistillate Transportation Fuels: Life Cycle Impacts, *Biofuels*, submitted.
- Engelbrecht, J.P., E.V. McDonald, J.A. Gillies, R.K.M. Jayanty, G. Casuccio and A.W. Gertler (2009). Characterizing Mineral Dusts and Other Aerosols from the Middle East—Part 1: Ambient Sampling, *Inhalation Toxicology*, **21(4)**, 297 – 326.
- Engelbrecht, J.P., E.V. McDonald, J.A. Gillies, R.K.M. Jayanty, G. Casuccio and A.W. Gertler (2009). Characterizing Mineral Dusts and Other Aerosols from the Middle East—Part 2: Grab Samples and Re-Suspensions, *Inhalation Toxicology*, **21(4)**, 327 - 336.
- Gertler, A.W., A. Bytnerowicz, T.A. Cahill, S. Cliff, and H. Kuhns (2009). The Contribution of Atmospheric Pollutants to Declining Water Clarity in the Lake Tahoe Basin, *Restoration Ecology*, submitted.
- Hoekman, S.K., A. W. Gertler, A. Broch, C. Robbins, and M. Natarajan (2009). Biodistillate Transportation Fuels: Production and Properties, *Biofuels*, submitted
- Kahyaoğlu-Koračin, J., S. Bassett, D. Mouat, and A. Gertler (2009). Application of A Scenario-Based Modeling System to Predict the Air Quality Impacts of Future Growth, *Atmospheric Environment*, **43**, 1021-1028.

- Robbins, C.; A. Gertler, R. Jacobson, R. Purcell, and L. Sheetz (2009), Evaluating the Overall Application of a Small Scale Hydrogen Combustion Renewable Energy Power System, *Renewable Energy*, submitted.
- Robbins, C., S.K. Hoekman, A. Gertler, A. Broch, and M. Natarajan (2009). Biodistillate Transportation Fuels: Emissions Impacts, *Biofuels*, submitted.
- Zhu, D., H.D. Kuhns, S. Brown, J.A. Gillies, V. Etyemezian, and A.W. Gertler (2009). Fugitive Dust Emissions from Paved Road Travel in the Lake Tahoe Basin, *JA&WMA*, **15**, 1219-1229.
- Gillies, J.A., M. Abu-Allaban, A.W. Gertler, D. Lowenthal, B. Jennison, A. Goodrich (2008). Enhanced PM_{2.5} Source Apportionment Using Chemical Mass Balance Receptor Modeling and Scanning Electron Microscopy, *Jordan Journal of Earth and Environmental Sciences*, **1**, 1 -9
- Weinroth, E., W. Stockwell, D. Koračin, J. Kahyaoglu-Koračin, M. Luria, T. McCord, D. Podnar, and A. Gertler (2008). A Hybrid Model for Local and Regional Ozone Forecasting, *Atmospheric Environment*, **42**, 7002-7012.
- Abu-Allaban, M., J.A. Gillies, A.W. Gertler, R. Clayton, and D. Proffitt (2007). Motor Vehicle Contributions to Ambient PM₁₀ and PM_{2.5} for Selected Urban Areas in the U.S., *Environmental Monitoring and Assessment*, **132**, 155-163.
- Abu-Allaban, M., D.H. Lowenthal, A.W. Gertler, and M. Labib (2007). Sources of PM₁₀ and PM_{2.5} in Cairo. *Environmental Monitoring and Assessment*, **133**, 417-425.
- Abu-Allaban, M., S. Hamasha, and A.W. Gertler (2006). Road Dust Resuspension in the Vicinity of Limestone Quarries in Jordan, *J. Air and Waste Management Association*, **56**, 1440-1444.
- Gertler, A.W., A. Bytnerowicz, T.A. Cahill, M. Arbaugh, S. Cliff, J.K. Koračin, L. Tarnay, R. Alonso, and W. Frączek (2006). Local Pollutants Threaten Lake Tahoe's Clarity, *California Agriculture*, **60**, 53-58.
- Gertler, A., Kuhns, H., Damm, C., Abu-Allaban, M., Gillies, J., Clayton, R., and Proffitt, D. (2006). The Impact of Winter Road Sand/Salt and Street Sweeping on Road Dust Re-Entrainment, *Atmospheric Environment*, **40**, 5976-5985.
- Engle, M.A., M.S. Gustin, S.E. Lindberg, A.W. Gertler, P.A. Ariya (2005). The Influence of Ozone on Atmospheric Emissions of Gaseous Elemental Mercury and Reactive Gaseous Mercury from Substrates, *Atmospheric Environment*, **39**, 7506-7517.
- Gertler, A.W. (2005). Diesel vs. Gasoline Emissions: Does PM from Diesel or Gasoline Vehicles Dominate in the U.S.? *Atmospheric Environment*, **39**, 2349-2355.
- Luria, M., R.L. Tanner, R.J. Valente, S.T. Bairai, D. Koracin, D., and A.W. Gertler (2005). Local and Transported Pollution over San Diego California, *Atmospheric Environment*, **39**, 6765-6776.
- Tarnay, L.W., D.W. Johnson, and A.W. Gertler (2005). Modeled Inputs of Atmospheric Nitrogen to the Lake Tahoe Basin Due to Gaseous Pollutant Deposition, *Journal of the Nevada Water Resources Association*, **2** (1), 41-57.

- Abu-Allaban, M., C.F. Rogers, and A.W. Gertler (2004). A Quantitative Description of On-Road Vehicle Exhaust Particle Size Distributions in a Highway Tunnel. *J. Air & Waste Manage. Assoc.*, **54**, 360-366.
- Molina, L.T., M. J. Molina, R. S. Slott, C. E. Kolb, P. K. Gbor, F. Meng, R. Singh, O. Galvez, J. J. Sloan, W. P. Anderson, X.Y. Tang, M. Shao, T. Zhu, Y.H. Zhang, M. Hu, B. R. Gurjar, P. Artaxo, P. Oyola, E. Gramsch, D. Hidalgo, A.W. Gertler (2004). Air Quality in Selected Megacities, *JAWMA 2004 Critical Review Supplement*, Air and Waste Management Association, Pittsburgh, PA.
- Abu-Allaban, M., J.A., Gillies and A.W. Gertler (2003). Application of a Multi-Lag Regression Approach to Determine On-Road PM₁₀ and PM_{2.5} Emission Rates. *Atmos. Environ.*, **37**, 5157-5164.
- Abu-Allaban, M., J.A., Gillies, A.W. Gertler, R. Clayton, and D. Proffitt (2003). Tailpipe, Resuspended Road Dust, and Brake-Wear Emission Factors from On-Road Vehicles. *Atmos. Environ.*, **37**, 5283-5293.
- Engle, M.A., M.S. Gustin, S.E. Lindberg, A.W. Gertler (2003). Exacerbation of Atmospheric Mercury Emissions from Substrates by Atmospheric Oxidants. *EOS Trans. AGU*, **84** (46), Fall Meet. Suppl., Abstract B21D-0750.
- Gautam, M., N.N. Clark, S. Mehta, J.A. Boyce, F. Rogers, and A. Gertler (2003). Concentrations and Size Distributions of Particulate Matter Emissions from a Class-8 Heavy-Duty Diesel Truck Tested in a Wind Tunnel, *2003 SAE Journal of Fuels and Lubricants*, 1615–1634.
- Abu-Allaban, M., W. Coulombe, A.W. Gertler, J. Gillies, W.R. Pierson, C.F. Rogers, J.C. Sagebiel, and L. Tarnay (2002). Exhaust Particle Size Distribution Measurements at the Tuscarora Mountain Tunnel. *Aerosol Sci. & Technol.*, **36**, 771-789.
- Abu-Allaban, M., A.W. Gertler, and D.H. Lowenthal (2002). A Preliminary Apportionment of the Sources of Ambient PM₁₀, PM_{2.5}, and VOCs in Cairo. *Atmos. Environ.*, **36**, 5549-5557.
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- Gillies, J.A. and A.W. Gertler (2002). Comparison and Evaluation of Chemically Speciated Mobile Source PM_{2.5} Profiles. *International J. of Vehicle Design*, **27**, 209-216.
- Ranmar, D.O., V. Matveev, U. Dayan, M. Peleg, J. Kaplan, A.W. Gertler, M. Luria, G. Kallos, Y. Mahrer (2002). The Impact of Coastal Transportation Emissions on Inland Air Pollution Over Israel – Utilizing Numerical Simulations, Airborne Measurements and Synoptic Analyses. *J. Geophys. Res.*, **107 (D17)**, 4331.
- Tarnay, L.W., A.W. Gertler, and G.E. Taylor (2002). An Inferential Model for HNO₃ Deposition to Semi-arid Coniferous Forests. *Atmos. Environ.*, **36**, 3277-3287.
- Gillies, J.A., A.W. Gertler, J.C. Sagebiel and W.A. Dippel (2001). On-Road PM_{2.5} and PM₁₀ Emissions in the Sepulveda Tunnel, Los Angeles, California. *Environ. Sci. Technol.*, **35**, 1054-1063.

- Grosjean, D., E. Grosjean, and A.W. Gertler (2001). On-Road Emissions of Carbonyls from Light-Duty and Heavy-Duty Vehicles. *Environ. Sci. Technol.*, **35**, 45-53.
- Tarnay, L., A.W. Gertler, R.R. Blank, and G.E. Taylor Jr. (2001). Preliminary Measurements of Summer Nitric Acid and Ammonia Concentration in the Lake Tahoe Basin Airshed: Implications for Dry Deposition of Atmospheric Nitrogen. *Env. Poll.*, **113**, 145-153.
- Gertler, A.W., J.A. Gillies, and W.R. Pierson (2000). An Assessment of the Mobile Source Contributions to PM₁₀ and PM_{2.5} in the United States. *Water, Air and Soil Pollution*, **123**, 203-214.
- Gillies, J.A. and A.W. Gertler (2000). Comparison and Evaluation of Chemically Speciated Mobile Source PM_{2.5} Particulate Matter Profiles. *J. Air & Waste Management Assoc.*, **50**, 1459-1480.
- Wilcox, B.P., S.S. Cliff, M.P. Jimenez-Cruz, T.A. Cahill, A.W. Gertler, and P.B. Kelly (2000), Source Apportionment of Ambient Particles Between Heavy-duty and Light-duty Vehicles from Relative Mass Spectra Intensities of Pyrene and Hydroxypyrene by Laser Desorption Ionization Time of Flight Mass Spectrometry, *EOS Trans.*, **81**, 66.
- Gertler, A.W., J.C. Sagebiel, W.A. Dippel and C.M. O'Connor (1999). The Impact of California Phase 2 RFG on Real-World Vehicle Emissions. *J. Air Waste Manage. Assoc.*, **49**, 1339-1346.
- Gillies, J.A., C.M. O'Connor, Y. Mamane, and A.W. Gertler (1999). Chemical Profiles for Characterizing Dust Sources in an Urban Area, Western Nevada, USA. *Zeitschrift fur Geomorphologie Supplementband*, **116**, 19-44.
- Gertler, A.W., J.C. Sagebiel, and W.A. Dippel and R.J. Farina (1998). Measurements of Dioxin and Furan Emission Factors from Heavy-Duty Diesel Vehicles. *J. Air Waste Manage. Assoc.*, **48**, 276-278.
- Gertler, A.W., D.N. Wittorff, R. McLaren, W. Belzer and T. Dann (1997). Characterization Of Vehicle Emissions in Vancouver BC During the 1993 Lower Fraser Valley Oxidants Study. *Atmos. Environ.*, **31**, 2107-2112.
- Gertler, A.W., J.C. Sagebiel and W.A. Dippel (1997). Dioxin Emissions from Heavy-duty Vehicles, Gertler et al., *Organohalogen Compounds*, **33**, 151-154.
- Lowenthal, D.H., D.N. Wittorff, A.W. Gertler and S. Sakiyama (1997). CMB Source Apportionment During REVEAL. *Environ. Eng.*, **123**, 80-87.
- Gertler, A.W., E.M. Fujita, W.R. Pierson and D.N. Wittorff (1996). Apportionment of NMHC Tailpipe vs Non-Tailpipe Emissions in the Fort McHenry and Tuscarora Mountain Tunnels. *Atmos. Environ.* **30**, 2297-2305.
- Gertler, A.W. and W.R. Pierson (1996). Recent Measurements of Mobile Source Emission Factors in North American Tunnels. *Sci. Total Environ.*, **189/190**, 107-113.
- McLaren, R., A.W. Gertler, D.N. Wittorff, W. Belzer, T. Dann and D.L. Singleton (1996). Real World Measurements of Exhaust and Evaporative Emissions in the Cassiar Tunnel Predicted by Chemical Mass Balance Modeling. *Environ. Sci. & Technol.*, **30**, 3001-3009.

- Pierson, W.R., A.W. Gertler, N.F. Robinson, J.C. Sagebiel, B. Zielinska, G.A. Bishop, D.H. Stedman, R.B. Zweidinger and W.D. Ray (1996). Real-World Automotive Emissions – Summary of Studies in the Fort McHenry and Tuscarora Mountain Tunnels. *Atmos. Environ.*, **30**, 2233-2256.
- Robinson, N.F., W.R. Pierson, A.W. Gertler and J.C. Sagebiel (1996). Comparison of MOBILE4.1 and MOBILE5 Predictions with Measurements of Vehicle Emission Factors in Fort McHenry and Tuscarora Mountain Tunnels. *Atmos. Environ.*, **30**, 2257-2268.
- Sagebiel, J.C., B. Zielinska, W.R. Pierson and A.W. Gertler (1996). Real-World Emissions and Calculated Reactivities of Organic Species from Motor Vehicles. *Atmos. Environ.*, **30**, 2287-2296.
- Zielinska, B., J. Sagebiel, G. Harshfield, A.W. Gertler and W.R. Pierson (1996). Volatile Organic Compounds in the C₂ - C₂₀ Range Emitted from Motor Vehicles: Measurement Methods. *Atmos. Environ.*, **30**, 2287-2296.
- Gertler, A.W., D.H. Lowenthal and W.G. Coulombe (1995). PM₁₀ Source Apportionment Study in Bullhead City, Arizona. *JAWMA*, **45**, 75-82.
- Robinson, N.F., A.W. Gertler and W.R. Pierson (1995). MOBILE4.1/5 Reweighting Software. *Environ. Software*, **10**, 11-22.
- Gertler, A.W. (1994). Apportionment of the Sources of Fine Particulates Impacting on the Israeli Coast. *Israel J. Chem.*, **34**, 425-433.
- Gertler, A.W. and W.R. Pierson (1994). Motor Vehicle Emission Modeling Issues. *Sci. Total Environ.*, **146/147**, 333-338.
- Gertler, A.W., W.G. Coulombe, J.G. Watson, J.L. Bowen, R.T. Egami and S. Marsh (1993). Comparison of PM₁₀ Concentrations in High- and Medium-Volume Samplers in a Desert Environment. *Environ. Mon. Assess.*, **24**, 13-25.
- Harrington, R.F., A.W. Gertler, D. Grosjean and P. Amar (1993). Formic Acid and Acetic Acid in the Western Sierra Nevada, California. *Atmos. Environ.*, **27A**, 1843-1849.
- Pierson, W.R., A.W. Gertler, and R.L. Bradow (1990). Comparison of the SCAQS Tunnel Study with Other On-Road Vehicle Emission Data. *JAWMA*, **40**, 1495-1504.
- Hering, S.V., D.L. Blumenthal, R.L. Brewer, A.W. Gertler, M. Hoffman, J.A. Kadlec and K. Pettus (1987). Field Intercomparison of Five Types of Fog Water Collectors. *Environ. Sci. Technol.*, **21**, 654-663.
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- Miller, D.F., D. Lamb and A.W. Gertler (1987). SO₂ Oxidation in Cloud Drops Containing NaCl and Sea Salt as Condensation Nuclei. *Atmos. Environ.*, **21**, 991-993.
- Miller, D.F., A.W. Gertler, M.R. Whitbeck and D. Lamb (1986). Ozone-Induced Oxidation of SO₂ in Simulated Clouds. *J. Geophys. Res.*, **91(D13)**, 14439-14444.

- Steele, R.L., A.W. Gertler, U. Katz, D. Lamb and D.F. Miller (1981). Cloud Chamber Studies of Dark Transformations of Sulfur Dioxide in Haze and Cloud. *Atmos. Environ.*, **15**, 2341-2352.
- Miller, D.F. and A.W. Gertler (1981). Acid Formation in Cloud Water as Affected by Gaseous NO₂. *EOS*, **62**, 884.
- Gertler, A.W. and R.L. Steele (1980). Experimental Verification of a Linear Relation Between IR Extinction and Liquid Water Content of Clouds. *J. Appl. Meteorol.*, **19**, 1314-1317.
- Gertler, A.W., B. Almeida, M.A. El-Sayed and H. Reiss (1979). On the Radical Mechanism for Photo-Induced Nucleation of Alkaline Vapors. *Chemical Physics*, **42**, 429.
- Sun, K., A.W. Gertler and H. Reiss (1979). Millikan 'Oil Drop' Stabilized by Growth. *Science*, **203**, 353.
- Gertler, A.W., J.O. Berg and M.A. El-Sayed (1978). Photo-Induced Nucleation in a Diffusion Cloud Chamber: NO₂ in Nonane. *Chem. Phys. Letters*, **57**, 343.

Peer-Reviewed Conference Proceedings

- Alsawair, J., A. Soleiman, A. Gertler, M. Peleg, D. Asaf, V. Matveiv, and M. Luria (2009). Air quality in the Gulf of Aqaba – Results of a Joint Jordanian-Israeli Cooperative Project, paper # 2009-A-231-AWMA, *proceedings of the 102nd Air and Waste Management Association Annual Conference*, Detroit, MI, June 16-19, 2009.
- Broch, A., S.K. Hoekman, A. Gertler, C. Robbins, and M. Natarajan (2009). Biodistillate Transportation Fuels 3 – Life Cycle Impacts, paper #2009-01-2768, *proceedings of the SAE Powertrains, Fuels and Lubricants Meeting*, San Antonio, TX, November 2-4, 2009.
- Hoekman, S.K., A. W. Gertler, A. Broch, C. Robbins, and M. Natarajan (2009). Biodistillate Transportation Fuels 1. Production and Properties, paper #2009-01-2766, *proceedings of the SAE Powertrains, Fuels and Lubricants Meeting*, San Antonio, TX, November 2-4, 2009.
- Labib, M.W., A. Saleh, and A.W. Gertler (2009). Assessment of the Particulate Matter Concentrations in Egypt Over the Past 10 Years, paper # 2009-A-187-AWMA, *proceedings of the 102nd Air and Waste Management Association Annual Conference*, Detroit, MI, June 16-19, 2009.
- Masadeh, E.M., A.W. Gertler, and D. Moshe (2009). Validation of a Microscopic Chemical Imaging System for PM Source Apportionment, paper #2009-A-344-AWMA, *proceedings of the 102nd Air and Waste Management Association Annual Conference*, Detroit, MI, June 16-19, 2009.
- Robbins, C., S.K. Hoekman, A. Gertler, A. Broch, and M. Natarajan (2009). Biodistillate Transportation Fuels 2. – Emissions Impacts, paper #2009-01-2724, *proceedings of the SAE Powertrains, Fuels and Lubricants Meeting*, San Antonio, TX, November 2-4, 2009.
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- Zhu, D., H. Kuhns, J. Gillies, V. Etyemezian, and A. Gertler (2008). Spatial and Seasonal Emissions of Road Dust in the Lake Tahoe Basin, *proceedings of the Air and Waste Management Association Annual Conference*, Portland, OR, June 24-27, 2008.
- Gertler, A.W., J. Gillies, and D. Moshe (2007). Application of a Microscopic Chemical Imaging System to Identify Soil Contaminated by Military Activity, *proceedings of the Air and Waste Management Association Annual Conference*, Pittsburgh, PA, June 26-28, 2007.
- Labib, M.W., M.H. Khalil, and A.W. Gertler (2007). Concentrations of Hazardous Organic Chemicals in the Greater Cairo (GC) Area, *proceedings of the Air and Waste Management Association Annual Conference*, Pittsburgh, PA, June 26-28, 2007.
- Labib, M.W., M.H. Khalil, and A.W. Gertler (2007). MTBE and Hazardous Chemicals in the Greater Cairo (GC) Area, *proceedings of the Air and Waste Management Association Annual Conference*, Pittsburgh, PA, June 26-28, 2007.
- El Zanan, H., M.W. Labib, M.H. Khalil, and A.W. Gertler (2006). Concentration and Distribution of Ambient PAHs in the Greater Cairo Area, *proceedings of the 99th A&WMA Annual Conference and Exhibition*, New Orleans, LA, June 19-23, 2006.
- Gertler, A.W., M. Abu-Allaban, and D. H. Lowenthal (2006). The Mobile Source Contribution to Observed PM₁₀, PM_{2.5}, and VOCs in the Greater Cairo Area, *proceedings of the 2nd Conference on Environment and Transport, Including the 15th Conference on Transport and Air Pollution*, Reims, France, June 12-14, 2006
- Gertler, A., J. Chow, J. Engelbrecht, C. Green, S. Guttikunda, R. Koppaka, D. Prasad, M. Shah, and K. Sibold (2006). Hyderabad Source Apportionment Study *proceedings of the 15th IUAPPA Regional Conference*, Lille, France, September 6-8, 2006.
- Kahyaoglu-Koračin, J., S.D. Bassett, D.A. Mouat, and A.W. Gertler (2006). Application of a Scenario Based Modeling System to Evaluate the Air Quality Impacts of Future Growth, *proceedings of the 2nd Conference on Environment and Transport, Including the 15th Conference on Transport and Air Pollution*, Reims, France, June 12-14, 2006.
- Labib, M., M.H. Khalil, A.W. Gertler, D.H. Lowenthal, and H. El Zanan (2006). Elevated Levels of Toxic Inorganic Species Observed in the Greater Cairo Area, *proceedings of the 99th A&WMA Annual Conference and Exhibition*, New Orleans, LA, June 19-23, 2006.
- Labib, M., M.H. Khalil, and A.W. Gertler (2006). Source Attribution Study (SAS) in the Greater Cairo (GC) Area with an Emphasis on the Cause of the Autumn “Black Cloud”, *proceedings of the 99th A&WMA Annual Conference and Exhibition*, New Orleans, LA, June 19-23, 2006.

- Abu-Allaban, M., J.A. Gillies, A.W. Gertler, R. Clayton, and D. Proffitt (2005). Motor Vehicle Contributions to Ambient PM₁₀ and PM_{2.5} for Selected Urban Areas in the U.S., in *proceedings of the 14th International Symposium, Transport and Air Pollution*, Graz, Austria, June 1-3, 2005.
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