

Alan W. Gertler

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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 is a Research Professor Emeritus in the Division of Atmospheric Sciences at the Desert Research Institute. He previously served as DRI's Vice President for Research and the Senior Director of DRI's Clean Technologies and Renewable Energy Center, the organizational umbrella under which all of DRI's renewable energy research, education, and outreach are conducted. His research includes both laboratory and field studies of atmospheric chemistry with particular emphasis on the impact of mobile sources on the environment. Dr. Gertler's research at DRI has also 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, development of quality assurance procedures to ensure accuracy of wet and dry deposition data, and measurements and characterization of emissions from mobile sources operating on traditional, biofuel, and HCNG blends. In addition, he has investigated real-world emissions from mobile sources and discrepancies between observed and predicted automotive emission factors.

His research includes development of new methods to attribute observed PM levels to specific sources, source apportionment and urban air qualities studies in the developing world, and the use and impact of alternative fuels for transportation and power generation. Among his many research projects (>\$50M as PI or co-PI), Dr. Gertler 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, Health Effects Institute sponsored Real-World Particulate Matter and Gaseous Emissions from Motor Vehicles in a Highway Tunnel, 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. His recently completed programs included serving as the project manager for the DOE sponsored Nevada Renewable Energy Consortium and PI for the EPA sponsored program: Developing an Urban Air Quality Management Program in Jakarta.

Professional Experience

2020 to present	Research Professor Emeritus, Division of Atmospheric Sciences, Desert Research Institute.
2018 to 2023	Senior Fellow, Long Island University.
1993 to 2020	Research Professor, Division of Atmospheric Sciences and Energy and Environmental Engineering Center, Desert Research Institute.
2017 to 2018	Lady Davis Fellow, Hebrew University, Jerusalem.
2013 to 2017	Vice President for Research, Desert Research Institute.
2012 to 2013	Interim Vice President for Research, Desert Research Institute.
2010 to 2013	Senior Director, Clean Technologies and Renewable Energy Center, Desert Research Institute.
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

Air & Waste Management Association (A&WMA)

Awards and Honors

- Roman Macaya Hayes Global Science Diplomacy Senior Fellow, Long Island University and the National Council for Science and the Environment, 2018-2023.
- Lady Davis Fellow, The Hebrew University, 2017-2018.
- Regents' Researcher Award, Nevada System of Higher Education, 2009.

- 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

- Vice President the International Union of Air of Air Pollution Prevention & Environmental Protection Agencies (IUAPPA) (2005–2007, & 2010-present)
- Board Member, International Arid Lands Consortium (2016-2021)
- President the International Union of Air of Air Pollution Prevention & Environmental Protection Agencies (IUAPPA) (2007–2010)
- Chair, A&WMA International Affairs Committee, (2014-2017)
- 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)

Peer-Reviewed Publications

- Karthik, V., Bhaskar, B.V., Ramachandran, S., Gertler, A.W. (2022). Quantification of Organic Carbon and Black Carbon Emissions, Distribution, and Carbon Variation in Diverse Vegetative Ecosystems Across India, *Environmental Pollution*, **309**, 119790, <https://doi.org/10.1016/j.envpol.2022.119790>.
- Gertler, A., Lowenthal, D.H., Labib, M.W. (2017). Air Quality Issues in Megacities: The Challenge of Cairo, Egypt, *EM*, **April 2017**, 15-19.
- Rayne, S., Gertler, A., Zielinska, B., Bytnerowicz, A., Burley, J., & Kaplan, M. (2017). Impact of regional meteorology on ozone levels in the Lake Tahoe Basin. *Meteorology and Atmospheric Physics*, **129** (3), 297-308.
- Burley, J., Theiss, S., Bytnerowicz, A., Gertler, A.W., Schilling, S., B. K. Zielinska (2015). Surface ozone in the Lake Tahoe Basin, *Atmospheric Environment*, **109**, 351-369 ([doi:10.1016/j.atmosenv.2015.02.001](https://doi.org/10.1016/j.atmosenv.2015.02.001)).
- Engelbrecht, J. P., I. Kavouras, D. Shafer, D. Campbell, S. Campbell, G. McCurdy, S. Kohl, G.

- Nikolich, L. Sheetz, A.W. Gertler (2015). Chemical Variability of PM10 and PM 2.5 in Southwestern Rural Nevada, USA, *Water Air and Soil Pollution*, **226**, Issue 7 Article 217 (doi:10.1007/s11270-015-2481-8).
- Incecik, S, A. Gertler, P. Kassomenos (2014). Aerosols and air quality, *Science of the Total Environment*, **488**, 355-355, (DOI: 10.1016/j.scitotenv.2014.04.012).
- Gertler, A.W. and D. Moshe (2014). Urban PM Source Apportionment Mapping Using Microscopic Chemical Imaging, *Science of the Total Environment*, **488-489**, 456-460 (<http://dx.doi.org/10.1016/j.scitotenv.2013.10.001>).
- Zhu, D. Kuhns, H.D., Gillies, J.A., and Gertler, A.W. (2014). Evaluating vehicle re-entrained road dust and its potential to deposit to Lake Tahoe: A bottom-up inventory approach. *Sci. Total Environ.* **466-467**, 277-286.
- Lowenthal D.H., Gertler, A.W., and Labib, M.W. (2014). Particulate matter source apportionment in Cairo: recent measurements and comparison with previous studies, *Int. J. Environ. Sci. Technol.*, **11**, 657-670.
- Zhang, Y., D. Obrist, B. Zielinska, and A Gertler (2013). Particulate Emissions from Different Types of Biomass Burning, *Atmospheric Environment*, **72**, 27-35.
- Safar, Z., M.W. Labib, and A.W. Gertler (2014). Development and Validation of a Lead Emission Inventory for the Greater Cairo Area, *Journal of Advanced Research*, **5**, 551-562 (<http://dx.doi.org/10.1016/j.jare.2013.07.003>).
- Guttikunda, S.K., Kopakka, R.V., Dasari, P., and Gertler, A.W. (2012). Receptor model-based source apportionment of particulate pollution in Hyderabad, India. *Environ. Monit. Assess.* 10.1007/s10661-012-2969-2.
- Zhu, D., Kuhns, H.D., Gillies, J.A., Etyemezian, V., Brown, S., and Gertler, A.W. (2012). Analysis of the effectiveness of control measures to mitigate road dust emissions in a regional network. *Transportation Research Part D: Transport and Environment*. **17 (4)**, 332–340.
- Zhu, D. H.D. Kuhns, J.A. Gillies, V. Etyemezian, S. Brown, and A.W. Gertler (2011). Analysis of the Effectiveness of Control Measures to Mitigate Road Dust Emissions in a Regional Network, *Transportation Research Part D: Transport and Environment*, 17 (4), 332–340.
- Asaf, D. M. Peleg, J. Alsawair, A. Soleiman, V. Matveev, E. Tas, A. Gertler, and M. Luria (2011). Trans-Boundary Transport of Ozone from the Eastern Mediterranean Coast, *Atmos. Environ.*, **45**, 5595-5601.
- Zhu, D., H. Kuhns, J.A. Gillies, V. Etyemezian, A. Gertler, and S. Brown (2011). Inferring Deposition Velocities from Changes in Aerosol Size Distributions Downwind of a Roadway. *Atmos. Environ.*, **45**, 957-966.
- Gertler, A.W., L. Bates Frymel, K. Stubbs, R. Mills (2010). 2010 World Congress: Achieving Environmental in a Resource Hungry World, *Environmental Manager*, December 2010.
- 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.
- 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.

- Kahyaoglu-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.
- 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- 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.
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- Robinson, N.F., A.W. Gertler and W.R. Pierson (1995). MOBILE4.1/5 Reweighting Software. *Environ. Software*, **10**, 11-22.
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Peer-Reviewed Conference Proceedings

- Gertler, A.W. and D. Moshe (2019). Near-Real Time Low-Cost PM Source Apportionment Using Microscopic Chemical Imaging. Proceedings of the *18th World Clean Air Congress*, Istanbul, Turkey, September 23-27, 2019.
- Mounir Wahba Labib, Yasser Saad Mohamed, and Alan Gertler (2019). Mitigation of Climate Change Impacts from Biomass Systems in Egypt. Paper # 591349 presented at *A&WMA's 112th Annual Conference & Exhibition*. Quebec City, Quebec, June 25-28, 2019.
- Mounir Wahba Labib and Alan Gertler (2019). Climate Change Effects on the Suez Canal Area After Completion of the New Development Project. Paper # 590833 presented at *A&WMA's 112th Annual Conference & Exhibition*. Quebec City, Quebec, June 25-28, 2019.

- Mounir Wahba Labib, Yasser Saad Mohamed and Alan Gertler (2019). Status of Renewable Energy Projects in Egypt. Paper # 591325 presented at *A&WMA's 112th Annual Conference & Exhibition*. Quebec City, Quebec, June 25-28, 2019.
- Mounir Wahba Labib, Yasser Saad Mohamed and Alan Gertler (2019). Assessment of the Social and Economic Impacts Due to Climate Change in Egypt. Paper # 591361 presented at *A&WMA's 112th Annual Conference & Exhibition*. Quebec City, Quebec, June 25-28, 2019.
- Mounir Wahba Labib, Yasser Saad Mohamed and Alan Gertler (2019). Approaches for Setting Up a Carbon Trading Scheme in Egypt. Paper # 591303 presented at *A&WMA's 112th Annual Conference & Exhibition*. Quebec City, Quebec, June 25-28, 2019.
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