

Shaibal Mukerjee, Research Physical Scientist, in EPA's National Exposure Research Laboratory

Exposure Methods and Measurements Division

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Area of Expertise: Dr. Mukerjee has 25 years' experience in conducting and publishing atmospheric characterization and modeling studies for exposure assessments. He has conducted statistical analyses to evaluate air quality, exposure method evaluations, spatial modeling, source apportionment modeling, and model applications in wind direction analyses. Air pollutants studied include PM species, mercury, volatile organic compounds, and nitrogen dioxide. His exposure studies support epidemiologic studies of air pollutants, EPA method assessments, and EPA Regional Applied Research Efforts (RARE).

Select Publications:

Guest editor/author for journal special issue Environmental Aspects of the Lower Rio Grande Valley. Environment International 1997; 23[5].

Guest editor/author for journal special issue U.S.-Mexico Transboundary Air Pollution Studies. The Science of the Total Environment 2001, 276[1-3].

MUKERJEE S., Smith L.A., Thoma E.D., Oliver K.D., Whitaker D.A., Wu T., Colon M., Alston L., Cousett T., Stallings C. Spatial analysis of volatile organic compounds in South Philadelphia using passive samplers. Journal of the Air & Waste Management Association, 2016; DOI: 10.1080/10962247.2016.1147505.

Eisele, A.P., MUKERJEE S., Smith L.A., Thoma E.D., Whitaker D.A., Oliver K.D., Wu T., Colon, M., Alston, L., Cousett, T., Miller M.C., Smith D., Stallings C. Volatile organic compounds at oil and natural gas production well pads in Colorado and Texas using passive samplers. Journal of the Air & Waste Management Association, 2016; DOI: 10.1080/10962247.2016.1141808.

MUKERJEE S., Smith L., Brantley H., Stallings C., Neas L., Kimbrough S., Williams R. Comparison of on-road air pollution from traffic exposure zones using real-time mobile monitoring. Atmospheric Pollution Research 2015; 6:82-87.

Sather M.E., MUKERJEE S., Smith L., Mathew J., Jackson C., Callison R., Scrapper L., Hathcoat A., Adam J., Keese D., Ketcher P., Brunnete R., Karlstrom J., Van der Jagt G. Gaseous oxidized mercury dry deposition measurements in the Four Corners area and Eastern Oklahoma, U.S.A. Atmospheric Pollution Research 2013; 4:168-180.

View more research publications by [Shaibal Mukerjee](#).

Education:

- Ph.D., Environmental Science, University of Cincinnati
- M.S., Environmental Science, University of Cincinnati
- B.S., Xavier University, Cincinnati, OH

Professional Experience:

Honors and Awards:

- Who's Who in America, 58th-63rd Eds., 2004-2009.
- Who's Who in Science and Engineering, 5th-9th Eds., 2000-2007.
- Two 2011 EPA Bronze Medals: **1)** Mechanistic Indicators of Childhood Asthma Study (MICA) Team (2011); **2)** Outstanding Research and Leadership in Forging a Federal-State Partnership for the U.S.-Mexico Border Lower Rio Grande Valley Exposure Study (1996).
- ORD Teamwork Award Exposure-Epidemiology Studies Team (2010).
- Four EPA Scientific and Technological Achievement Awards (STAA): **1)** Passive Ambient Air Exposure Monitoring and Land Use Regression Modeling in the Detroit Children's Health Study (2011); **2)** Contributions in Monitoring and Modeling Traffic and Urban Air Pollution for Children's Health Studies (2008); **3)** Assessment of Air Quality Indicators and Transboundary Air Pollution in the US-Mexico Border (2003); **4)** Significant Advancement in Integrated Source Apportionment Techniques to Assess Emission Reduction Strategies (1996).