

## **Surender M. Kaushik, Supervisory Physical Scientist, in EPA's National Exposure Research Laboratory**

Exposure Methods and Measurements Division

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**Area of Expertise:** Surender's research interests are in the areas of ambient air methods and measurements, analytical chemistry, and atmospheric chemistry processes of pollutants. He has led NERL's efforts in updating the ambient air reference methods for lead, sulfur dioxide, and carbon monoxide for implementation of the NAAQS. As branch chief, Surender facilitates/participates in research projects on computational and experimental study of gas and particle phase chemistry processes for providing input to air quality models including CMAQ. Previously, he has worked on research projects involving chemical kinetics of oscillating reactions, desulfurization and demineralization of coal, and compatibility of materials with rocket fuels and oxidizers.

### **Select Publications:**

- R. Vanderpool, S. Kaushik, and M. Houyoux; "Laboratory Determination of Particle Deposition Uniformity on Filters Collected Using Federal Reference Method Samplers", Federal Register, 2008.
- C. D. Chriswell, N. D. Shah, S. M. Kaushik, and R. Markuszewski, 1989; "Chemical Cleaning of Coal by Molten Caustic Leaching after Pretreatment by Low Temperature Devolatilization", Fuel Processing Technology, 22, 25.
- S. M. Kaushik, R. L. Rich, and R. M. Noyes, 1985; "Quantitative Characterization of an Experimental System", J. Phys. Chem. 89, 5722.

View more research publications by [Surender Kaushik](#).

### **Education:**

- Ph.D., Chemistry, Indian Institute of Technology, New Delhi, India, 1980
- M.S., Chemistry, Kurukshetra University, India, 1975
- B.S., Chemistry and Physics, Panjab University, India, 1973

### **Professional Experience:**

- Supervisory Physical Scientist, USEPA, ORD, NERL- HEASD, Research Triangle Park, NC 2010-present
- Physical Scientist, USEPA, ORD, NERL-HEASD, Research Triangle Park, NC 2007-2010

- QA Manager, ICF, U.S. EPA Region 9 Laboratory, Richmond, CA 2001-2007
- Principal Scientist, Lockheed Martin, USEPA Region 9, San Francisco, CA 1997-2001
- Principal Scientist, Lockheed Martin, USEPA, NERL, Las Vegas, NV 1994-1997
- Principal Scientist, Lockheed Martin, NASA White Sands Test Facility, Las Cruces, NM 1991-1994
- Research Scientist, Center for Explosives Technology Research, Socorro, NM 1987-1991
- Research Associate, U.S. DOE, Ames Laboratory, ISU, Ames, IA 1985-1987
- Postdoctoral Research Associate, University of Oregon, Eugene, OR 1983-1984
- Postdoctoral Research Fellow, Dalhousie University, Halifax, Canada 1982-1983