Exposure Science and Its Applications for Effective Environmental Management
by S.T. Rao
Exposure is the link between environmental pollution and human/ecosystem health. Exposure science entails understanding the scientific processes that affect source emissions, transport and fate, spatio-temporal variability in the ambient concentrations, levels of contaminants that people breathe in, and stressors to sensitive ecosystems. This month, EM considers the need for advancing exposure science and its applications to better protect human and ecosystem health, and the resulting challenges confronting environmental managers.

Exposure Concepts for Environmental Management
by Linda Sheldon, Rochelle Araujo, Florence Fulk, and Fred Hauchman, U.S. Environmental Protection Agency

The Importance of Modeling in Exposure and Risk Assessments
by Julian Levy and Richard Reiss, Exponent Inc.

Characterizing Variability and Uncertainty in Exposure Assessments Improves Links to Environmental Decision-Making
by Halûk Özkaynak and Bryan Hubbell, U.S. Environmental Protection Agency; and H. Christopher Frey, North Carolina State University

The Role of Exposure Science in Air Quality Management
by Tim Watkins and S.T. Rao, U.S. Environmental Protection Agency; and Ron Wynga, EPRI

Assessing the Public Health Impact of Regional-Scale Air Quality Regulations
by Valerie Garcia, Neal Fann, Richard Haeuber, and Phil Lorang, U.S. Environmental Protection Agency

Assessing Exposure to Waterborne Pathogens
by Fred S. Hauchman, U.S. Environmental Protection Agency

Exposure Reconstruction: A Framework for Advancing Exposure Assessment
by Florence Fulk, Marsha Morgan, and John Kenneke, U.S. Environmental Protection Agency