

**Technion Center of Excellence in Exposure Science and
Environmental Health (TCEEH)**

Wednesday, May 25, 2011 at 12:30
Grand Water Research Institute Lecture Hall

**Dr. Jeremy A. Sarnat, Department of Environmental Health, Rollins School
of Public Health of Emory University**

Will be presenting on:

**Bridging the Gap: Exposure Science and its Implications for Understanding Health Effects
from Exposures to Air Pollution**

Abstract: Most epidemiologic studies examining the health effects from exposure to ambient air pollution use ecologic surrogates of population exposures. The validity of this practice and its potential for introducing exposure misclassification bias into the observed epidemiologic results has been widely debated. To address this issue, numerous exposure assessment studies throughout the U.S. and Europe have been conducted to more fully characterize pollutant spatiotemporal variability and factors affecting personal exposure. This presentation reviews the major results from a subset of these exposure studies and summarizes the collective findings for their impact on interpreting air pollution epidemiology. Directions for future exposure assessment and epidemiology research, including estimating exposures to pollutant sources, trace chemical components and complex mixtures will also be discussed.