This week’s seminar will be virtual only with no in-person presentation. Zoom Link for Seminar: https://zoom.us/j/93895878866?pwd=blZJU2hGU25ZMWczb3dRR1BhWHZPdz09

“The Cost of Beauty: Characterizing Inhalation Risks and Respiratory Effects of Aerosolized Cosmetic Exposures”

Dr. Christa Watson-Wright, PhD
Assistant Professor, School of Public Health
Georgia State University

Tuesday, February 23, 2021
4:30-5:30 PM Eastern Time (US and Canada)

Abstract: Dr. Wright’s research program at GSU utilizes her nanotoxicology skillset to address respiratory hazards associated with various types of inhaled particulate matter including traffic related air pollution, engineered nanomaterials emitted from aerosolized nano-enabled consumer products, and most recently electronic nicotine delivery systems (ENDS) aerosols. Her work aims to unravel particle mediated molecular mechanisms including DNA damage and repair that initiate cellular phenotypic changes, which may lead to disease development. In this talk, Dr. Wright will discuss her research on aerosolized cosmetic usage and inhalation risks, an understudied environmental exposure scenario. Using a custom automated aerosol generation system, Dr. Wright simulates consumer cosmetic usage behavior to characterize aerosols generated during the course of product application. Aerosol parameters such as particle size and concentration are then used to determine particle mass deposition in the human lung and also used as real-world doses in in vitro toxicological assessments.

Host: Jonathan Shannahan