

Distinguished Lecture Series

presented by the Department of Civil Engineering

“A Sanitary Engineering Perspective on the Characterization & Control of Bioaerosol Traffic in Our Atmospheric Environment”



Professor Mark Hernandez

Professor, Environmental Engineering, University of Colorado at Boulder

Synopsis

While traditionally the domain of chemists and industrial hygienists, the atmosphere is now an active frontier for environmental engineers. While generally considered oligotrophic, the atmosphere carries microcellular hallmarks of life – both in primary and weathered forms. In this context, bioaerosols are defined as a generic class of airborne particulate matter comprised either in whole or in part of macromolecular compounds of biological origin. The contribution of the most common primary biopolymers, to the pool of atmospheric organic carbon remains relatively unknown, as is their potential to weather, participate in secondary aerosol formation or otherwise contribute to toxicological activity, indoors and out. New ways to characterize and control the aerobiology suspended in our atmospheric environment will be presented through the context of case studies of health care settings and natural disasters (Hurricane Katrina, Deep Water Horizon Oil Spill, and Great Plains Floods).

Thursday, January 28, 2016

5:00 - 6:00 p.m.

Galbraith Building Room 120

Registration is required. There is no cost to attend.

Register at: www.civil.engineering.ca/lectures