

THE 16TH ANNUAL HAROLD I. SCHIFF LECTURE
FACULTY OF SCIENCE AND ENGINEERING

Presented by:

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*The Hemispheric transport of pollution:
Ozone, particles, and mercury*

Friday, December 8th

2:30 p.m.

Senate Chamber, N940, Ross Building

York University

Abstract: Surface ozone, particulate matter (PM), and mercury are well-recognized anthropogenic pollutants targeted by regulations throughout the developed world. Regulations are enacted by individual nations on their domestic emissions, but there is increasing evidence that a hemispheric approach is necessary because of pollutant transport on international and intercontinental scales. The associated environmental issues, transport pathways, and process uncertainties including chemistry are very different for ozone, PM, and mercury, and I will discuss each of these in turn. However, I will also show how an integrated approach to hemispheric pollution research is useful because of commonality in modeling tools, observational approaches, and policy challenges. I will discuss prospects for improving our understanding of long-range transport of pollution to the Arctic during the International Polar Year (IPY) by describing plans for the NASA ARCTAS aircraft/satellite mission to be conducted in spring/summer 2008 as part of POLARCAT.

Organized by the York University Centre for Atmospheric Chemistry. Email: cac@yorku.ca