The 2009 Noble Lectures

BY

Dr. Kelly Chance

Smithsonian Astrophysical Observatory of the Harvard-Smithsonian Center for Astrophysics

A Lecture Series on

(b)June 1998

THE PHYSICS OF ATMOSPHERIC GAS MEASUREMENTS

11:00 am, Room: KP 108, Koffler Institute, Bancroft Ave.

Monday, April 27, 2009

Introduction to quantitative spectroscopy applied to the Earth's atmosphere

Tuesday, April 28, 2009

Atmospheric physics as applied to data analysis algorithms

Wednesday, April 29, 2009

Atmospheres, geometries, and instruments

(c)June 1999

Friday, May 1, 2009

Data fitting, analysis, and satellite results

All preceded by coffee at 10:30 am in Physics, Room MP110

A special Physics Colloquium on

Thursday April 30, 2009

Ultraviolet and visible measurements of the Earth's atmosphere: Toward continuous pollution monitoring from space

4:10 pm, Room: KP 108, Koffler Institute, Bancroft Ave. Reception to follow in Physics, Room MP110

These lectures will be accessible to a broad audience of people interested in the topic. They will present the underlying physics issues that have had to be addressed in order to successfully make quantitative measurements of atmospheric composition, particularly when absorption and emission signatures are very small components of the spectra. A highlight will be the Special Physics Colloquium dealing with the Ultraviolet and visible measurements of the Earth's atmosphere: Toward continuous pollution monitoring from space.

Hosted by the Atmospheric Physics Group, with the generous support of the Reginald and Muriel Noble Fund, and the Centre for Global Change Science.