Weekly CEAFM Seminar: Fall 2016

JOHNS HOPKINS
Center for Environmental
& Applied Fluid Mechanics

Date: **Friday, September 9, 2016**

Time: 11:00 AM

Location: Gilman Hall # 50

Speaker: **Prof. Darryn Waugh** (Johns Hopkins University – Earth and Planetary Sciences)

Title: ***"Polar Vortices: Earth, Mars and Beyond"***

Abstract

The term "polar vortex" has become part of the everyday vocabulary, but there is some confusion in the media, general public, and science community regarding what polar vortices are and how they are related to various weather events. Here I will clarify what is meant by polar vortices in the atmospheric science literature, and use observations, idealized fluid dynamical models, and general circulation models to examine the structure and dynamics of polar vortices on Earth and Mars (and perhaps beyond).

Bio

Darryn Waugh is a Professor in the Department of Earth and Planetary Sciences at the Johns Hopkins University. His primarily research interests are large-scale atmosphere and oceanic flow and transport, with a focus on understanding global environmental issues such as stratospheric ozone depletion and climate change. Darryn was born in New Zealand, and obtained his Bachelor and Master's degrees in Mathematics from the University of Waikato, NZ in 1985 and 1987, respectively. He earned his Ph.D. in Applied Mathematics at Cambridge University, UK in 1991. He was a post-doctoral fellow at MIT and a research scientist at Monash University, Australia, before joining the Hopkins faculty in 1998.