

SEMINAR NOTICE

*Department of Physics and Engineering Physics
University of Saskatchewan*

SPEAKER: Dr. Christopher O’Dea
University of Manitoba

TOPIC: *Black Holes vs Galaxies*

DATE: Tuesday, January 24, 2017

TIME: 3:30-4:30 p.m.

PLACE: Physics 103

ABSTRACT:

Supermassive black holes seem likely to supply energy to their galactic scale environments which can modulate the process of star formation and determine the shape of the galaxy luminosity function. In addition, supermassive black holes seem to supply energy to the hot X-ray emitting Intracluster Medium (ICM) of clusters of galaxies. The black hole replenishes energy lost from the gas due to radiation and influences the properties of the ICM as well as those of the centrally located massive Brightest Cluster Galaxy. I discuss the role of supermassive black holes in galaxy formation and evolution and in the intracluster medium of clusters of galaxies. I present multi-wavelength observations (Chandra, Hubble Space Telescope, ALMA, VLA) of the interaction of extended radio sources (produced by the central black holes) with their environments.

Coffee and Cookies will be served in the Physics lounge at 3:00 p.m. for those attending the seminar.