

\*\*\*\*\* 4th ISEE/CICR colloquium \*\*\*\*\*

Speaker: Dr. Andrew W. Yau

(University of Calgary, Canada)

Date and time: December 7 (Mon) 13:30-

Place: Room 301 of the Institute for Space-Earth Environmental Research

Title: Heavy Ion Energization and Outflow

Abstract: The discovery of precipitating energetic oxygen ions from the magnetosphere in the 1970's [Shelley et al., 1972] prompted a fundamental paradigm shift in our perception of the compositional origin of the Earth's magnetosphere. The discovery also heralded an extensive body of studies of heavy ion energization and outflows based on satellite, rocket and radar observations over the past four decades. We discuss our contemporary view on the variety of heavy ion outflows and their source origins and energization, as well as the consequence of their transport in the context of magnetosphere-ionosphere coupling and planetary atmospheric escape.

(given in English)