

Space Physics Seminar

Thursday, April 14, 2016

ICON: Exploring the Boundary Between Earth and Space

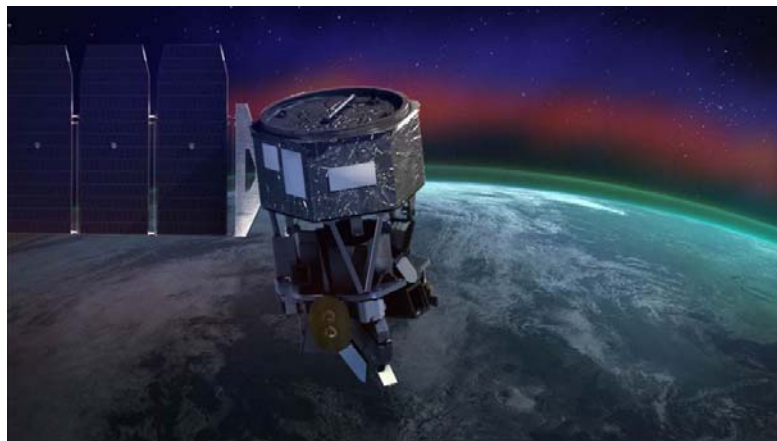
Dr. Thomas J. Immel

The University of California, Berkeley

Abstract:

The Ionospheric Connection Explorer, or ICON, will explore the boundary between Earth and space to understand the physical connection between our world and our space environment. This connection is made in the ionosphere, which has long been known to respond to space weather drivers from the sun, but in the 21st century the energy and momentum of our own atmosphere have newly emerged as regularly having effects of equal or greater magnitude. ICON's goal is to weigh the impacts of these two drivers as they exert change on our space environment. Here we describe the specific science objectives that fulfill this goal, as well as the means by which they will be achieved. The instruments selected, the overall payload and spacecraft performance requirements, and the operational requirements are also described.

ICON is a NASA Explorer mission, selected for flight in 2013 for a 2017 launch, developed and managed by the Space Sciences Laboratory at the University of California, Berkeley, with key support from several partner institutions including Orbital ATK, the Naval Research Laboratory, the University of Texas at Dallas, and Utah State University.



3:15 pm

Refreshments
CAS Room 500

3:45 pm

Seminar
CAS Room 502

Next Week

- Summer Ash
Columbia University
- TBD

