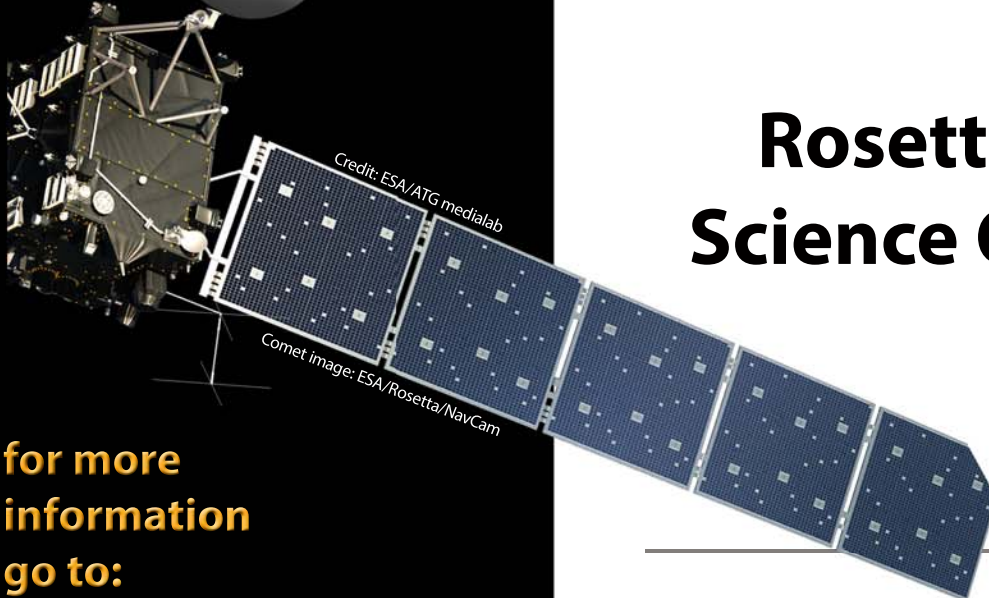


**Keck**  
INSTITUTE  
FOR  
SPACE  
STUDIES



for more  
information  
go to:  
[kiss.caltech.edu](http://kiss.caltech.edu)



The Keck Institute for Space Studies  
presents an open lecture:

# Artificial Intelligence Support of Rosetta Orbiter Science Operations

**Dr. Steve Chien**  
Senior Research Scientist  
Jet Propulsion Laboratory

---

Wednesday, November 2, 2016

4:30 PM Refreshments  
5:00 PM Lecture

Lees-Kubota Lecture Hall  
Guggenheim Building  
California Institute of Technology

---

On September 30th 2016, the European Space Agency's Rosetta Mission ended with the Rosetta Orbiter landing on the surface of the comet 67P/Churyumov-Gerasimenko. While it is well known that this historic mission was the first mission to deploy a soft lander to a comet (Philae) and to escort a comet for two years, it was also a pathfinding space mission from the perspective of Operations and Computer Science in its usage of the Artificial Intelligence planning and scheduling software for early to mid-range science activity scheduling and data downlink scheduling. Come hear about the Rosetta mission: science, operations, and the use of Artificial Intelligence to support Rosetta Orbiter operations.

---

No registration is required for this open lecture.  
Seating is limited and is available on a first come, first served basis.