

The Keck Institute for Space Studies  
presents the following lecture:

# Watching the Earth Breathe from the International Space Station

Dr. Annmarie Eldering  
OCO-3 Project Scientist, JPL

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Wednesday, June 26, 2019

4:30 PM Refreshments  
5:00 PM Lecture

Sharp Lecture Hall  
Arms Building  
California Institute of Technology

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In May 2019, the Orbiting Carbon Observatory-3 (OCO-3) was installed on the International Space Station (ISS). A follow-on to the still-active OCO-2 mission, OCO-3 will bring not only a new vantage point but new techniques and new technologies to NASA's carbon dioxide observations.

OCO-3 will demonstrate a new technique to measure urban carbon emissions, volcanic eruptions and other local carbon sources from space. This scanning technique, enabled by the instrument's ability to swivel and point rapidly, produces a tightly woven blanket of measurements over an area of about 50 by 50 miles (80 by 80 kilometers) — about the size of the Los Angeles Basin.

Dr. Annmarie Eldering, the Project Scientist for OCO-3, will share some of the latest news from OCO-3, as well as the goals for the three year measurement campaign from the ISS.

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Seating is limited and is available on a first come, first served basis.

A vertical photograph of the International Space Station (ISS) in orbit above Earth. The station's complex structure, including multiple modules and large solar panel arrays, is clearly visible against the blue and white clouds of the planet.

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