

Dear CSS members, our annual Emmons Lecture will be this Thursday, October 21, 7 p.m. (log in at 6:30 or after), via Zoom. As per below: Eight months of Perseverance on Mars, by Ken Farley, of CalTech. It should be a great presentation! And we're sorry we can't have him come here and do it in person!

We don't seem to have the login information yet for the Zoom meeting, so, please see our CSS website, <https://coloscisoc.org/>, and get it there, once it is posted! (Not posted yet, as of midnight Monday.) We look forward to seeing you online via Zoom to hear & see this presentation!

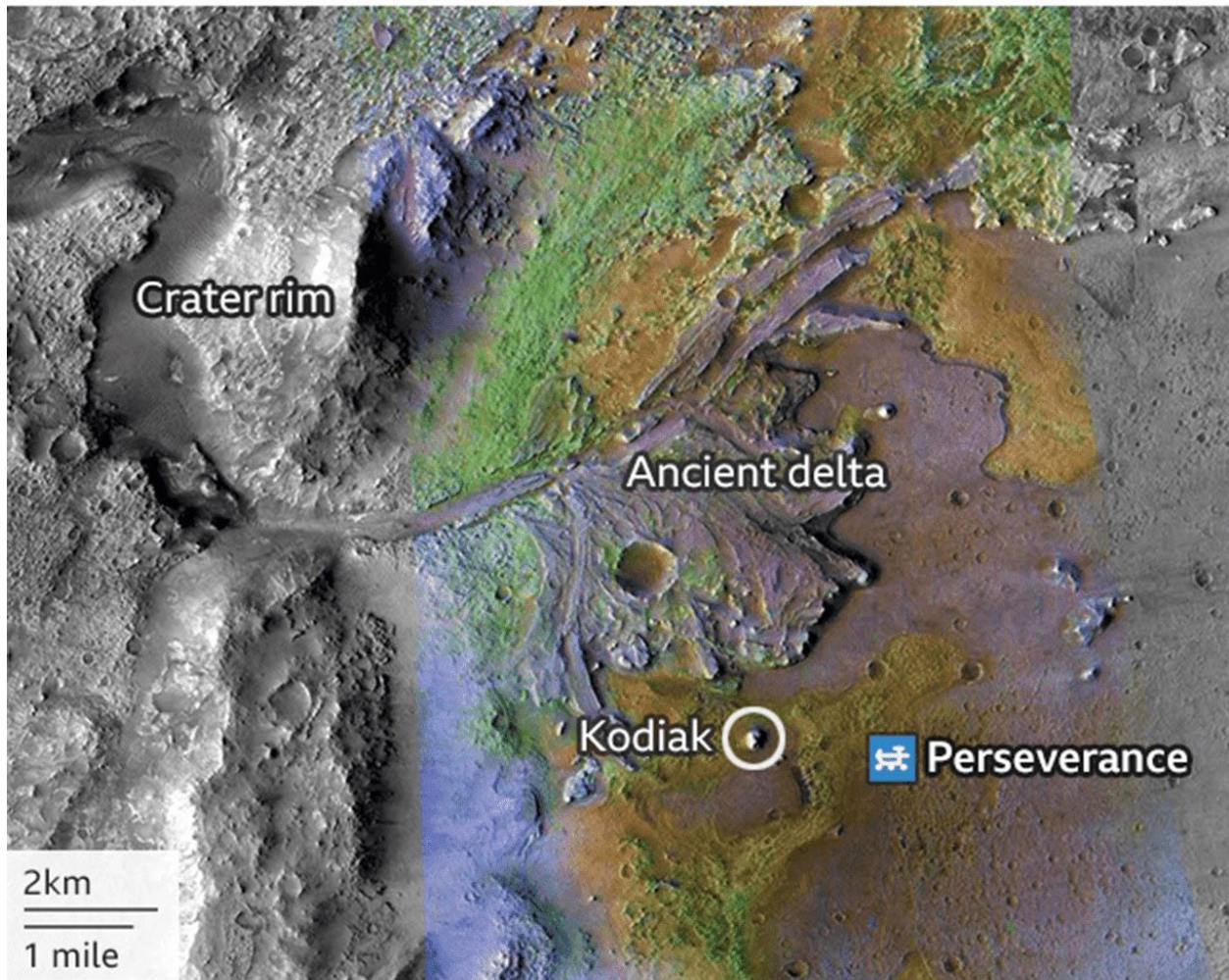
Thursday, Oct. 21, 2021

CSS Emmons Lecture,
Eight months of *Perseverance* on Mars

Ken Farley, Professor of Geochemistry at the California Institute of Technology (CalTech)

This will be an online Zoom-only meeting that you can join after 6:30 pm, with the talk starting at 7:00 pm.

Mars rover: Exploring the Jezero Crater



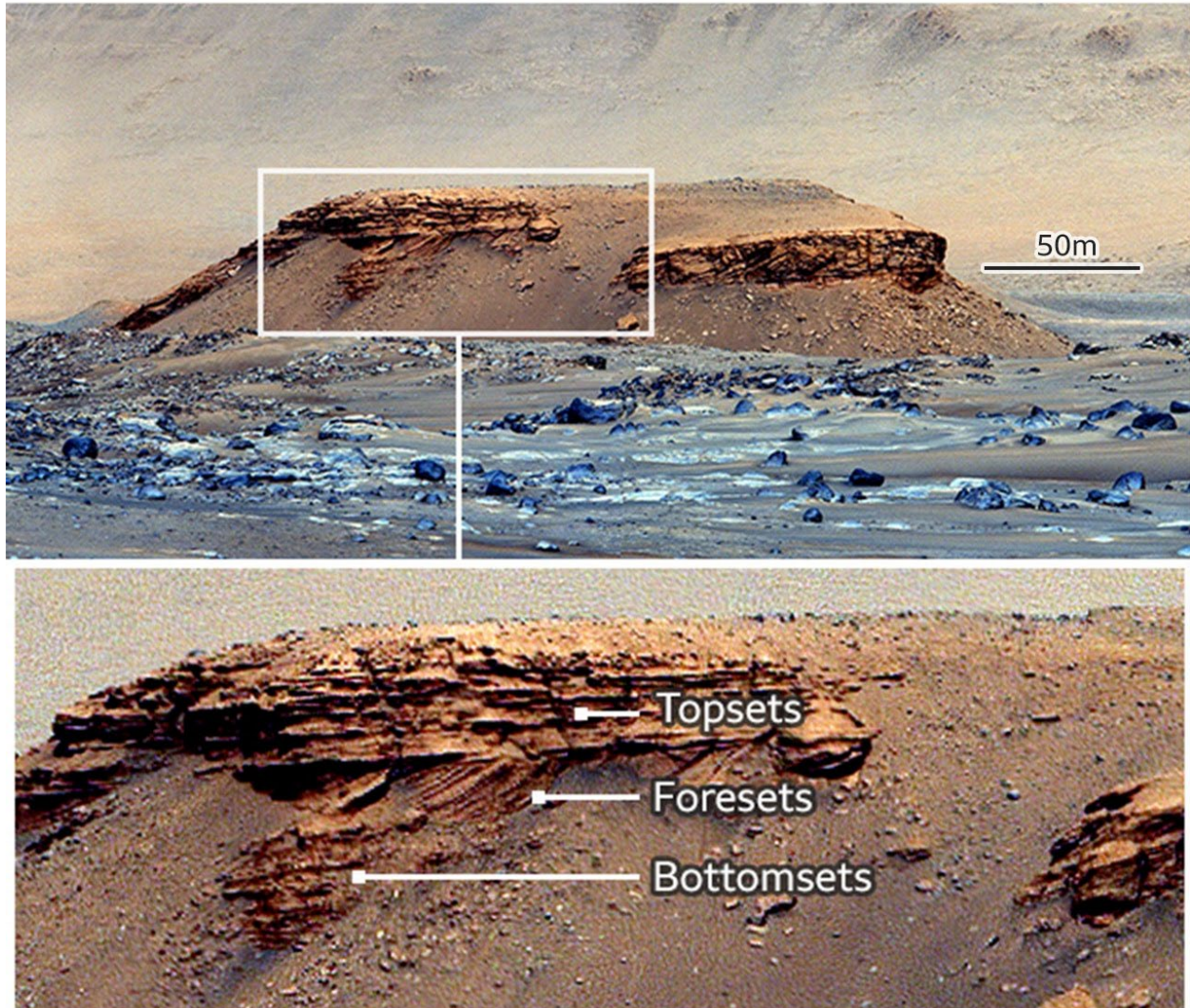
Source: NASA/JPL-Caltech/MSSS/JHU-APL

BBC

Perseverance's landing spot in the Jezero Crater on Mars, investigating an ancient delta

[Click here for a high resolution image.](#)

Kodiak Butte: Delta remnant in Jezero Crater



Source: NASA/JPL-Caltech/ASU/MSSS/J.Bell

BBC

Kodiak Butte: Delta remnant in Jezero Crater

[Click here for a high resolution image.](#)

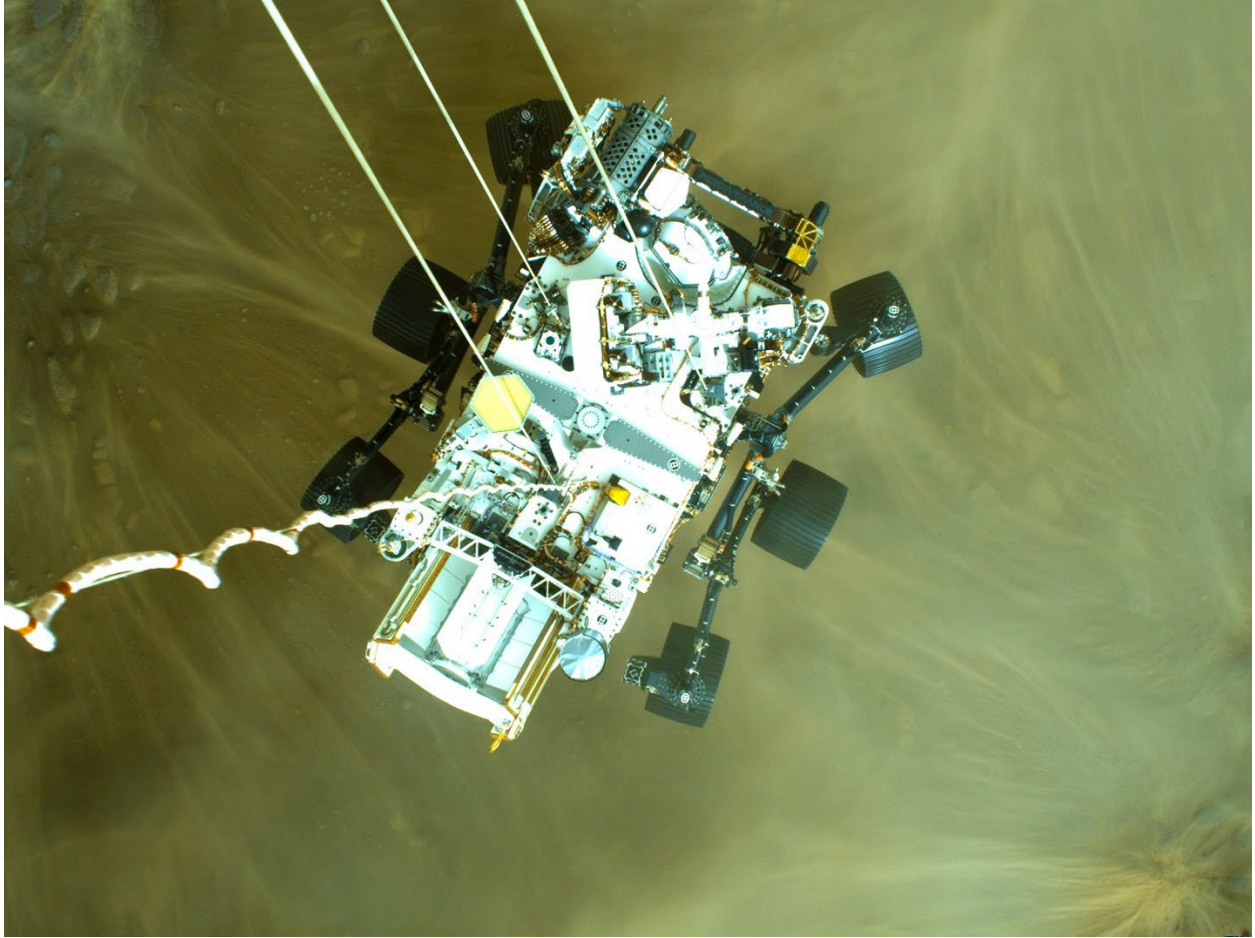
Abstract: The Perseverance rover landed on Mars on February 18, 2021 on the floor of a crater that held a deep lake about 3.5 billion years ago. The mission's goals are to interpret the rocks deposited on the crater floor, seek evidence of possible ancient life recorded in those rocks, and prepare a collection of rock samples for possible return to Earth by future missions. I am Project Scientist for the mission, and in this talk I'll explain this mission's motivations and activities in its first eight months, as well as describe my personal experiences with this enormous undertaking.



Ken

Farley

Ken Farley is the W.M. Keck Foundation Professor of Geochemistry in the Division of Geological and Planetary Sciences at the California Institute of Technology. His research centers on development and application of geochemistry techniques, especially involving isotopes of the noble gases, to a wide range of terrestrial and solar system questions. Specific areas of interest include geochronology of both Earth and Mars, the geochemical evolution of the Earth, and the behavior of noble gases in minerals. He is currently Project Scientist for the Mars 2020 Perseverance mission. He received a Bachelor of Science degree in chemistry from Yale University in 1986 and a doctorate in Earth Science from the Scripps Institution of Oceanography, University of California San Diego, in 1991. He began his professorial career at Caltech in 1993.



From the Sky crane lowering Perseverance to the surface of Mars



Perseverance takes a selfie on Mars



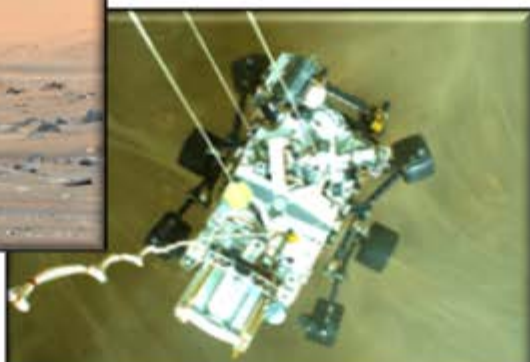
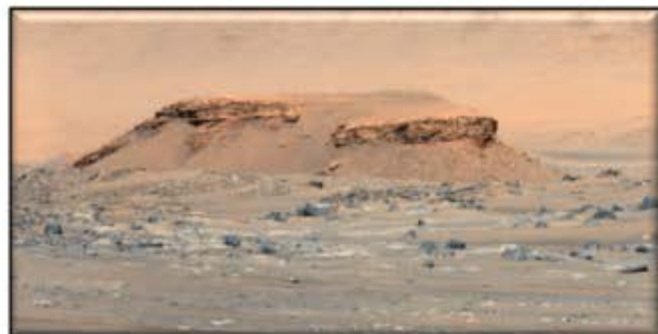
Colorado Scientific Society

Annual Emmons Lecture



Eight Months of Perseverance on Mars

Kenneth A. Farley, Project Scientist
W.M. Keck Fndn Professor of Geochemistry
Division of Geological & Planetary Sciences
Caltech, Pasadena



The Perseverance rover landed on Mars on February 18, 2021 on the floor of a crater that held a deep lake about 3.5 billion years ago.

The mission's goals are to interpret the rocks deposited on the crater floor, seek evidence of possible ancient life recorded in those rocks, and prepare a collection of rock samples for possible return to Earth by future missions.

In this talk I'll explain this mission's motivations and activities in its first eight months, as well as describe my personal experiences with this enormous undertaking.

Thursday Oct. 21, 2021
Social Time 6:30 Program 7:00 pm

Colorado School of Mines
Berthoud Hall Room 241
Golden, CO 80401
Or Join us on Zoom – link on website
www.coloscisoc.org

