



San Joaquin Geological Society

Date: Tuesday, February 14th, 2023

Time: 6:00 PM Social Hour
7:00 PM Dinner
8:00 PM Lecture

Place: American Legion Hall
2020 H Street, Bakersfield, CA 93302

PSAAPG Members
\$30 with reservation
\$35 without reservation

Non PSAAPG Members
\$35 with reservation

Full-time Students with ID
\$15

*** RSVP ***

**By: noon Monday,
February 13th, 2023**

Register online:
[http://www.SanJoaquinGeological
Society.org/](http://www.SanJoaquinGeologicalSociety.org/)

Pay online or at the door

2022 SJGS OFFICERS

PRESIDENT

Jennifer Prosser
EnviroTech Consultants, Inc.
jprosser@envirotechteam.com

VICE PRESIDENT

Tom Howard
PayZone Inc.
tomh@payzoneinc.com

SECRETARY

Kenton Crabtree
Berry Corporation
kjcrabbytree@gmail.com

TREASURER

Sara Maloney
Central Valley Regional
Water Quality Control Board

PRESIDENT-ELECT

Lisa Alpert
Aera Energy
laalpert@aeraenergy.com

PAST-PRESIDENT

Jeff Kimber
CalGEM
Jeff.kimber@conservation.ca.gov

Water and Fire: Perseverance Rover's discoveries in Jezero Crater, Mars

Presented by: Dr. Sarah M. Milkovich

Abstract: For decades, NASA has been exploring Mars with a fleet of spacecraft to understand the role of water in its history and look for areas that in the past could have supported life. This work has paved the way for the Perseverance Rover, which landed on Mars in February 2021 and has been studying the geology of Jezero Crater ever since. It has discovered a fascinating array of rocks that tell a story of ancient volcanic flows and lake waters – and collected the first set of rock samples intended for eventual return to Earth.

Biography: Dr. Sarah M. Milkovich is a planetary geologist and systems engineer at NASA Jet Propulsion Laboratory, where she currently works on the Mars Perseverance Rover and with the Applied Earth Science Disasters program. Sarah specializes in the science operations of robotic spacecraft, bridging the science and engineering teams. In this capacity, she has spent over 15 years exploring the solar system with a variety of spacecraft. Sarah has won JPL and NASA team awards for her efforts to return the best possible science within spacecraft engineering constraints, as well as for excellence in outreach and public engagement. She holds a B.S. in planetary science from Caltech, and a M.Sc. and Ph.D. from Brown University in planetary geology with studies of ice on Mars, and volcanoes on Mercury. Sarah is a frequent public speaker at astronomy clubs and fan conventions, sharing her enthusiasm for space exploration and the stories of the people behind the robots.

February Sponsor:

Cornerstone Engineering

