

Peak Area Leadership in Science

Professional Development Opportunities
for Secondary Science Teachers

Three Ways to RSVP:

- www.sciencehubs.org
- email: RSVP@sciencehubs.org
- call Tammy Johnnie at
(719) 337-1552

EXPERIENCE CAVING - CaveSim, CAVE LESSONS AND CAVE OF THE WINDS

Saturday, November 13, 2021

Meet at Cheyenne Mountain JHS 1200 W Cheyenne Rd, CS, CO 80906 - Arrive before 8 in order to sign in !

8:00 am - 3:00 pm

AM: Dave Jackson, CaveSim Inventor and Engineer



PM: Staff of the Cave of the Winds



Remember to Bring...

- Your science notebook* and writing item.
- AM - Clothing & shoes appropriate for both indoor and outdoor activities. [NOTE: There will be restroom facilities available.]
- PM - Clothing & shoes appropriate for caves. Please see back of flyer for details.
- Any personal items you may need during the meeting.
- You will be responsible for your own lunch. Bring your own or stop on the way up to Cave of the Winds.
- You will need to provide your own transportation up to Cave of the Winds for the optional afternoon tours.



* PALS provides a free science notebook at your first meeting of the year !



**SNACKS &
WATER / POP
PROVIDED**



- AM - CaveSim: experience our mobile cave system
- See how we teach students to love science by allowing them to feel the joy of exploration.
- Learn how we teach bat biology, epidemiology, and statistics
- Learn how to teach forces, friction, pulleys, and other physics concepts.
- Gain a better understanding of how CaveSim programs can integrate with your curriculum
- PM - Meet at Cave of the Winds by 12:45 for one of the two optional tours. You **must** pre-register for the tour when you RSVP for this workshop. **See back of flyer for details !**



◆ Discovery Tour (45 min - 1 hour)

OR

◆ Caving 101 Tour (2 - 2.5 hours)



This workshop is made possible by
GENEROUS funding from:

**FOUNDATION
MIKKELSON**

& The Mikkelson Education Fund

Providing Support for Teachers

to Improve Technical Knowledge and Skills

Additional Funding by



USAFA K-12 STEM
Outreach Program

Find us on &

Search for **Peak Area Leadership
in Science**

Check out our website at
www.sciencehubs.org

Photo at top provided by Rose DiCenso.

In compliance with Colorado School of Mines regulations, children of participants may not attend Hub meetings or activities.
PLEASE - If you sign up for this workshop and have to cancel, contact TAMMY asap.

Additional Information about the two cave tours available on the afternoon of November 13th.

*(Participants must pre-register for their choice of afternoon tour when they rsvp for the hub meeting.
Tours are only open for pre-registered participants who attend the morning session.
Participants may choose NOT to attend the afternoon portion of this meeting.)*

**Meet at Cave of the Winds by the front entrance
at 12:45 for tours that start at 1 pm.**

**The information below was provided by
Cave of the Winds at <https://caveofthewinds.com/>**

Discovery Tour!

Explore the electrically lit portion of the Cave of the Winds on a **45 – 60 minute guided walking tour** which includes **15 rooms, a 1/2 mile of concrete walkways, and 196 stairs**. On this tour you will learn about the [history and geology of the cave while being shown some of its most beautiful formations](#). The cave is consistently **54 degrees fahrenheit**, so a light sweater or jacket may be necessary. **Wear comfortable clothing, such as a long sleeve shirt and pants, and good walking shoes.**

Caving 101

Take An Exciting Cave Trek! Explore the wild, undeveloped depths of the Manitou Grand Caverns on the **2 – 2.5-hour guided tour that involves an assortment of crawling, climbing, and walking through wet and muddy passages of various sizes**. On this tour, you will **crawl / climb / walk for nearly a mile** while [learning basic spelunking skills and the history as well as geology of the cave](#). This tour is not recommended for guests who have back or knee trouble. **Please wear clothing you won't mind getting dirty and possibly ruined by the mud in the cave. Each participant needs to bring a flashlight or headlamp, a change of clothes, and an extra pair of shoes. Knee pads and/or a pair of gloves may be helpful.** There will be no other source of light in the portion of the cave you will be exploring.