

**Peak Area Leadership in Science (PALs) 2022-2023:** Professional Development Meetings\* for Science Teachers

*Meetings are FREE! Reservations (and cancellations) required!\*\**

To make reservations register online at [www.sciencehubs.org](http://www.sciencehubs.org)  
or contact Tammy Johnnie at [rsvp@sciencehubs.org](mailto:rsvp@sciencehubs.org) or 719-337-1552 (cell)

Date/Day/Time	Topic	Speaker(s)	Location	Contact Hours
<b>Aug 20, 2022</b> (Sat) 8am – 5:30pm	<b>Dinosaur Freeways, Cretaceous Seaways, and Fossil Traces in Swampy Places</b>	Dinosaur Ridge Staff & Friends of Dinosaur Ridge Volunteers	Field Trip - Morrison & Golden, CO (meet bus at CMJHS)	<b>5.0</b>
<b>Sept 8, 2022</b> (Thurs) 4pm - 7 pm	<b>Exploring Connections to the Standards through Local Phenomena</b>	Heather Hubbard, CPW Maya Garcia, CDE	Vista Ridge High School (VRHS)	<b>2.5</b>
<b>Sept 17, 2022</b> (Sat) 8am – 1:30pm	<b>Implementing the Standards in HS Science</b>	Robin Walters, Beth Kochevar, Andy Smith, Science Teachers @ SCHS	Sand Creek High School (SCHS)	<b>5.0</b>
<b>Oct 1, 2022</b> (Sat) 8am – 2pm	<b>Geo Maker Institute: Mapping, Making and Storytelling</b>	Heidi Ragsdale, STEM is My Future, LLC	The Campus (D49)	<b>5.0</b>
<b>Oct 8, 2022</b> (Sat) 4pm - 9pm	<b>Wild about Elk</b>	Linda Groat, Program Coordinator, MSP & Martha Alvarez, PHS	Mueller State Park (MSP)	<b>5.0</b>
<b>Nov 12, 2022</b> (Sat) 8:30am – 2pm	<b>Redesigning High School Science Investigations</b>	Tim Blesse, DMNS Brandon Davis, DMNS	SCHS	<b>5.0</b>
<b>Nov 30, 2022</b> (Wed) 4pm - 7pm	<b>Grouper Moon Project + STEM</b> -Conservation of an Endangered Species Using Technology	Hilary Penner, REEF.ORG	Colorado Parks and Wildlife (CPW) on Sinton Rd	<b>2.5</b>
<b>Dec 5, 2022</b> (Mon) 4pm - 7 pm	<b>Ute People and STEM Practices</b>	Rose Banzhaf, Southeast EE Leadership Council	VRHS	<b>2.5</b>
<b>Jan 21, 2023</b> (Sat) 8:15am – 2pm	<b>Chemistry of Art and Color</b>	Dr. Jennings, Dr. Kelly, Dr. Jefferies, Dr. Furstenau, Stacey Lazelle @ USAFA Chem Dept	USAFA Chemistry Department	<b>5.0</b>
<b>Feb 4, 2023</b> (Sat) 8am – 1pm	<b>Creating the Future: Genetic Engineering and Synthetic Biology</b>	USAFA Biology Department and iGEM Team	USAFA Biology Department	<b>5.0</b>
<b>Feb 15, 2023</b> (Wed) 4pm - 7pm	<b>Local Water Wonders: Water Education with Colorado Springs Utilities</b>	Birgit Landin, CSU Community Education Specialist	Colorado Springs Utilities on Mesa Rd	<b>2.5</b>
<b>Mar 1, 2023</b> (Wed) 4pm – 7pm	<b>Invasive Lionfish Program: Human Impact, Ecological Impact and Engineering Design</b>	Hilary Penner, REEF.ORG	CPW on Sinton Rd	<b>2.5</b>
<b>Mar 15</b> (Wed) 4pm – 7pm	<b>Conversations with a Forensic Pathologist !</b>	Deborah G. Johnson, MD, MS, Pikes Peak Forensics, PC	SCHS	<b>2.5</b>
<b>Apr 15, 2023</b> (Sat) 8am - 1:30pm	<b>Continuing Chemistry and Biochemistry Education at UCCS</b>	Staff in UCCS Chemistry and Biochemistry Departments	UCCS Department of Chemistry and Biochemistry	<b>5.0</b>
<b>April 29, 2023</b> (Sat) 8am – 1:30pm	<b>Birds Galore !</b>	Fountain Creek Nature Center Staff	Fountain Creek Nature Center	<b>5.0</b>

Generous funding for these workshops provided by... **The Mikkelson Foundation & The Mikkelson Education Fund**  
Sessions offered January – May 2023 are dependent on funding.

\* The information above is subject to change! See our web-site [www.sciencehubs.org](http://www.sciencehubs.org) for additional information and updates !

\*\* **NEW** - Reservations will be accepted on a monthly basis. Sign up for meetings you'd like to attend for a given month and mark your calendar. You may be asked to respond to confirm your reservation, so please monitor your email as each meeting approaches. If you cannot attend, contact Tammy ASAP, as we may have a waiting list and/or may have to pay in advance for your spot.

\*\*\* Certificate of contact hours will be provided free for active participation in our hub meeting(s) at the end of the school year. We will also offer continuing education college credits through CSM for a modest fee. College credit only earned in increments of 0.5 semester credits. Contact hours and college credits accumulate for the current school year only – no carry over for prior or future school years. Certificate /credit will be available at the end of the school year, typically in June.

