Cool Science Festival Carnival Day!

1. WEST LAWN

US Army 749th OD CO (EOD)

Drive a real Explosive Ordnance Disposal (EOD) robot and meet the soldiers who use them.

Chevenne Mountain Zoo

Meet some of your favorite zoo animals. (10am to 2pm only)

The Mobile Earth and Space Observatory

An Earth and space science center on wheels with telescopes, augmented reality sandbox and more!

USAFA 94th Flying Training Squadron

Climb into a real glider and experience a simulated glider flight.

Civil Air Patrol Colorado Springs Cadet Squadron

Build a paper rocket and launch it 300 feet with compressed air!

CaveSim

Gear up to crawl through 60 feet of artificial cave tunnels and practice vertical caving techniques.

Denver Museum of Nature and Science

Explore the Curiosity Cruiser - DMNS's "Museum on Wheels"

2. EL POMAR PLAZA

Rocky Mountain Robotics

Meet ASD-20's 2023 First Robotics Competition robot.

Aerospace Radio Club Colorado Springs

Go on the air with amateur radio in our communication trailer.

Top Ladies of Distinction Inc./ Top Teens of America

Make humongous soap bubbles - or just pop them!

Pikes Peak Permaculture

Roll your own Seed Balls or Earth Dumplings to grow native plants for pollinators.

Southeastern Colorado Renewable Energy Society

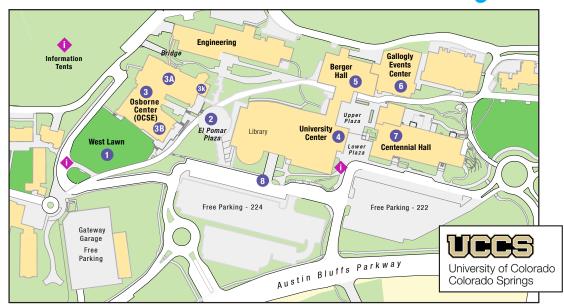
Cook S'mores cooked in a solar oven and learn about renewable energy technologies.

ARKA

Use parabolic microphones to simulate how satellites send information from space to Earth.

Kelly Bull Permaculture Design

Dig into vermiculture and hold a worm in your hand to see how they turn trash into treasure.



3. OSBORNE CENTER (OCSE)

OUTSIDE OCSE ENTRANCE

American Institute of Aeronautics and Astronautics

Rocket propulsion with Alka-Seltzer tablets.

UCCS Dept of Mechanical & Aerospace Engineering

Launch a CO2-powered rocket.

League of Women Voters

Paint a rock and learn why it's important to vote.

OUTSIDE OCSE - A PATIO

Minerals Education Coalition

Pan for gold while learning how valuable mineral resources are recovered.

OUTSIDE OCSE - B PATIO

Space Foundation Discovery Center

Create an alien, launch puff rockets and blow dry ice soap bubbles.

OCSE 2ND FLOOR

Pikes Peak Regional Science and Engineering Fair

Learn how to make an awesome science fair presentation from winning students.

Pikes Peak Library District

Create a Penny Spinner to explore force, motion and visual effects!

UCCS Dept of Physics &

Energy Science Learn how the giant pendulum works and what it tells us about the Earth. Plus demos of magnetism, aerodynamics, and other spectacular physics.

The Colorado Springs School

Observe, model and experiment with roly-poly (pill) bugs.

OCSE A210

UCCS Computer Science Bioinformatics Lab When Artificial Intelligence Meets

Biology - Learn how scientists harness the power of Al algorithms and leverage genomic data to address pertinent biological problems. 40-min presentations at 11 am, Noon and 1 pm. (Best for high school students and adults)

OCSE A214

UCCS Engineering & Applied Physics

Use sound waves to trap microbubbles and make fire dance! (Best for older kids)

OCSE A218

UCCS Engineering & Applied Physics

Play a game steering your tiny ship thru blood vessels to deliver life-saving medicine!

OCSE B213

Nature and Wildlife Discovery Center

Meet a live bird of prey and explore skins and skulls.

OCSE B215

U.S. Air Force Academy - Dept of Computer & Cyber Sciences

Crack secret message codes, explore deep learning and AI, and program Arduino robots.

OCSE B216

Pikes Peak Composite Squadron

Learn about Bernoulli's Principle with paper airplanes, mask making drone demonstrations.

OCSE 3RD FLOOR

American Numismatic Association Learn how real money is made and

Learn how real money is made ar guess which coin is heaviest.

Colorado Springs Pioneers Museum

You're a History Detective, using invisible ink, decoder, and magnifying glass to solve puzzles.

El Paso County Nature Centers

Meet some of the tiny creatures that live in the Fountain Creek Watershed.

OUTSIDE OCSE - 3RD FLOOR PATIO

Colorado Springs Astronomical Society

Observe Earth's closest star (our dynamic sun) with special high power solar telescopes.

OCSE A302

UCCS Dept. of Mechanical & Aerospace Engineering

Experiment with airfoil/wing aerodynamics in a real wind tunnel.

OCSE A304 - OCSE A306

UCCS American Institute of Aeronautics and Astronautics

Space Science demonstrations with Cubesats and a rocket engine.

OCSE A306

UCCS Latinx Student Union

Watch robots that dance, do sit-ups, push-ups, and other cool movements.

OCSE A327 (3K ON MAP)

Colorado Springs Rocket Society

Build a real Estes model rocket with help from our rocket scientists.

OCSE B310

UCCSTeach

The Wonders of Water! - Chill out with an ice balloon and explore unique properties that make water essential for life on Earth. 40-min lab sessions 10 & 11 am, Noon, 1, 2, 3 pm. (All ages)

OCSE B314

UCCS Bug Club

Insectapalooza! Meet live and preserved spiders, bugs and other critters and feed them.

OCSE 4TH FLOOR

Cave of the Winds

Learn how some caves and rocks form and the cave ecosystem.

Schriever Space Force Base

Hold a satellite and see what space looks like through our Delta 8 virtual headset.

Davidson Technologies Make your own mini Star Wars light saber.

Missile Defense Agency

Design, build and launch your own inflatable ballistic missile.

OCSE B402

UCCS Natural History Museum

800 specimens of mammal skins, skulls and skeletons and dissect owl pellets.

ENGR 230 (via OCSE 4th Floor Bridge)

UCCS Electrical & Computer Engineering Dept. UCCS student Arduino and robotics projects.

4. UNIVERSITY CENTER (UC)

UC LOWER PLAZA

Royal Crest Dairy, Palmer High School and Cool Science Make your own ice cream with liquid nitrogen.

Macaroni KID Colorado Springs

Crafts, games, prizes, bubbles, temporary tattoos and pose as a scientist in our photo booth.

UC UPPER PLAZA

Theatre Across Borders Project 206: A Great Bones Adventure There are 206 bones in the human body, and Gavin the Explorer will need every last one to complete a daring rescue mission. You'll love this quirky, adventurous science play written with kids, for kids. 20-min shows at 10:40 am, 1:30, 2:15 & 3 pm. (All ages)

UCCS Physics Rock & Roll Band

Enjoy a group of UCCS faculty (mainly physics faculty) performing classic rock and roll music. Performances at 11:30am and 12:30pm. (All ages)

Pikes Peak Soap Box Derby

Let gravity take you for a ride in a real Soap Box Derby car.

Colorado Parks and Wildlife

Meet live fish from Fountain Creek in our aquariums

Rocky Mountain Vibes Baseball

Demonstrate how principles of flight and air resistance affect the trajectory of baseball pitches.

UC 1ST FLOOR

UCCS CK - Kiwanis

Make water dance, a bowl sing and tap a spoon that will blow your mind!

UC 2ND FLOOR

USAFA iGEM Team

Lyme Disease Detection & Tick Check

UCCS Cognitive Development Lab Learn why we think the way we think by playing a memory game.

Pikes Peak Children's Museum

Bird Beak Buffet - try to eat like a bird with different beak shapes.

Pikes Peak Mycological Society

Learn how fungi are farmed on a magnificent mushroom adventure in a fungus habitat.

Donor Alliance

Learn about organ and tissue donation by playing a life-sized Operation game!

Rocky Mountain Dinosaur Resource

Center Experience the Amazing Prehistoric Seas.

UCCS PERCH Research Lab

Create a model of a brain with clay while learning about the different parts and their functions.

UC 3RD FLOOR

Sustainable Educational Experience

Learn how to identify herbs and change the flavors of foods by combining different ingredients.

Girl Scouts of Colorado Build and launch a Girl Scouts paper rocket.

US EPA Play fun games to learn about protecting our environment.

Pikes Peak State College

The Cool Science Festival

continues thru Oct. 15th with many more cool events

and fun for all ages!

Launch a ping pong ball and race a mousetrap car.

UC 302

U.S. Air Force Academy -

Physics is Phun (A Hair Raising Experience!) Watch- and experiencethe amazing power of physics with a variety of angular momentum and magnetic forces demonstrations. Between shows you can try out some of the equipment yourself! Shows at 11am, 12:30 and 2 pm. (All ages)

UC 303

Keysight Technologies

Build electrical circuits, "see" sound waves, explore with hands-held microscopes and program robots.

5. BERGER HALL

Humane Society of the Pikes Peak Region Test the Science of Positive Reinforcement with your Pets.

iFLY Colorado Springs

"Fly" various shaped objects in a vertical wind tunnel.

Bearbotics Robotics Team

Big robots, little robots, battlebots, 3D printed drones, Al art and more from D-38's team.

UCCS Cybersecurity Programs

Office Learn about Cybersecurity through VR (Virtual Reality)!

National Museum of World War II Aviation

Build and test fly your own foam plane to demonstrate the physics of flight.

6. GALLOGLY EVENTS CENTER

Lockheed Martin Power a rocket sled and experience virtual reality.

U.S. Air Force Academy STEM Pop-up Planetarium - Pop into our inflatable planetarium to watch "The Sun, Our Nearest Star". Shows every 25 mins. (All ages)

Cougars Gone Wired **D-11 FIRST Robotics Team**

Play soccer and catch with robots built by D-11 high school students.

Boys & Girls Club of the Pikes Peak Region Learn to build and program drones to play soccer in the air.

Slim Rail Modular Model Railroad

Club Check out an amazing scale model of Colorado narrow gauge railroad technology.

Challenger Learning Center

Design your own Moon Medallion and program a lunar rover.

THANK YOU Sponsors, Donors,

Presenters & Volunteers who make the

Cool Science Festival possible!

7. CENTENNIAL HALL **CENTENNIAL 1ST FLOOR**

Emerge Aquaponics

See fish, plants and microorganisms working together to create a sustainable food growing system.

National Weather Service Create clouds in a bottle and demonstrate the fluid motions of a tornado.

CENTENNIAL 111

UCCS GES Geomorphology Research Lab Get wet and sandy creating different types of stream channels with water.

CENTENNIAL 2ND FLOOR

UCCS Biochemistry Experiment with the enzymes in your own saliva that help break down the food you eat.

Starbase Peterson Use paper chromatography on markers to solve a puzzle.

CENTENNIAL 203

Cool Science & Air Force Academy Chemistry Magic Show - Always a fan favorite, experience the wonders of chemistry with Dr. Ron Furstenau performing his signature magic show. "Potions" change colors, explode and even freeze right before your eyes! Shows at 10:30am & Noon. (All ages)

UCCS Dept of Chemistry and Biochemistry Chemical Illusions: A Chemistry Magic Show - Dr. Elise Naughton from UCCS Chemistry Dept. demonstrates the magic of chemistry with rainbow fire, flaming gummy bears, an electric pickle, a genie in a bottle & more! 1:30 & 3 pm. (All ages)

8. PARKING LOT IN FRONT OF UC

Colorado Springs Utilities

Cathodic Protection, Heat Pumps and Solar Charging - Oh My!

Drive Electric Colorado

Electric Vehicle Showcase - See a wide variety of electric vehicles and talk to a team of experts.

Colorado Springs Fire Department CSFD fire fighters will demonstrate their equipment. (11am-1pm Only)

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FOUNDATION





www.coloradogives.org/coolscience









