

5. UNIVERSITY CENTER

BERGER HALL (CONTINUED)

Antarctic Support Contract
Try on extreme cold weather gear for Antarctica. **A**

1ST FLOOR



Pikes Peak Mycological Society
Check out the wild mushrooms found in Colorado. **A**

124 Autism Vision of Colorado
Just how strong are spaghetti noodles? **A**

126 USAFA Department of Computer and Cyber Sciences
Cryptology and Cybersecurity
Can you crack the secret code? **O**

2ND FLOOR
U.S. Olympic & Paralympic Training Center
Build your strength and conditioning like an Olympic athlete. **A**

U.S. Olympic & Paralympic Museum
Why do skis slide? Meet Paralympian Tyler 'TC' Carter for a lesson on friction. **A**

ATRIUM
Technical Communication and Information Design @ UCCS
Why are some phone apps great and others terrible? **O**

Simply Kids Dental
Proper toothbrushing & flossing and X-rays of cavities. **A**

Gather Food Studio
Make your own edible "dirt" **A**

Beekeeper Leigh Gaddy
The Sweet Science of Honeybees. **A**

Concrete Couch
Make art with plants and veggies. **A**

3RD FLOOR
North Cheyenne Canon
Minerals and Morsels: Taking Cookies for "Granite". **A**

302 - THEATRE
USAFA Department of Computer & Cyber Sciences
Talk to humanoid robots
Pepper and Misty. **A**

303A QuestBotics Inc.
Control and drive little robots by programming. **A**



303B Cool Science
Come see some inhabitants of the Microworld! Make your own slides of fungi, pond life & more. **A**

6. GALLOGLY EVENTS CENTER

Dinosaur Resource Center
Explore the world of dinosaurs. **A**



Beth-El Johnson Simulation Learning Center
Give our lifelike robotic manikins a shot and drive a telepresence robot through a hospital room. **A**

Civil Air Patrol - Pikes Peak Senior Squadron
The role of drones in search & rescue missions. **A**

Aiken Audubon
Bird migration - you can help. **A**

USAFA Dept. of Mathematical Sciences
Hands on Mathematics. **A**

UCCS Musculoskeletal Biomechanics Lab
Use cereal to experiment with the biomechanics of bone fracture. **A**

Northrop Grumman
Paper Airplane Challenge and Snap Circuit Activity. **A**

Dublin Modern Dentistry
The "Mouth Body Connection" **A**

Colorado Springs Utilities
Purifying Recycled Water **A**

7. CENTENNIAL HALL

LOBBY
Pikes Peak Library District
Let It Fly! Explore the physics of flight with paper airplanes and whirly-gigs. **A**

203 LECTURE HALL



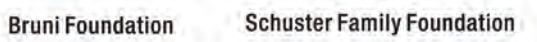
Cool Science Chemistry Magic Show
10am & 1:30pm
Always a fan favorite, USAFA Professor Emeritus Ron Furstenau demonstrates color changing potions, explosions & lots more! **A**

UCCS Chemistry Chemistry Illusions
Noon & 3pm
Dr. Elise Naughton from the UCCS Chemistry Dept. demonstrates the magic of chemistry with light producing reactions, flaming gummy bears, an electric pickle and maybe a genie in a bottle! **A**

2021 FESTIVAL SPONSORS



COOL SCIENCE DONORS



A FULL DAY OF SCIENCE FUN!



Saturday
October 9, 2021
10am - 4pm



University of Colorado
Colorado Springs

1420 Austin Bluffs Parkway
Colorado Springs CO

www.coolscience.org

THANK YOU Sponsors, Donors, Presenters & Volunteers who make this Festival possible!

Support this Festival and Cool Science Programs with Your Donation...
www.coloradogives.org/coolscience
COLORADOGIVES.ORG®

THERE'S MORE AFTER THE CARNIVAL!

Check out 60+ "Cool" STEAM events for all ages during our **9 DAY COOL SCIENCE FESTIVAL** happening throughout the Pikes Peak region!

www.coolscience.org for schedule and details.

MAKERSPACES - NATURE HIKES - MUSEUMS - FARMS - STARGAZING - WINE - CORN MAZE - PLANETARIUM - CAVE TOUR - SCIENTISTS' COMEDY



SAT OCT. 9 - SUN OCT. 17

Visit our mobile-friendly Carnival Day website for details on exhibits, show descriptions and schedules.

www.coolspace.org/cool-science-carnival-day.html

UCCS Public WIFI Available: "UCCS-Guest"



1. WEST LAWN

Civil Air Patrol Colorado Springs Cadet Squadron
Build & launch air powered paper rockets **A**

UCCS High Altitude Race Engineering
UCCS student's own electric race car **O**

UCCS Dept. of Electrical & Computer Engineering
Introduction to self-driving cars **O**

Cheyenne Mountain Zoo (10am-2pm only)

The ZOOMobile - live animals! **A**

Southeast Colorado Renewable Energy Society (SECRES)

Use solar energy to cook S'Mores! **A**

Rocky Mountain AIAA
Can you land your rocket on a distant planet? **A**

School District 49
Mobile VR and AR stations in a school bus. **O**

Missile Defense Agency
Design & build a 2-foot long inflatable missile. **A**



National Space Science & Technology Institute
The Mobile Earth & Space Observatory (MESO) **A**

US Army 62 EOD Ft. Carson
Bomb disposable robots and gear. **A**

2. EL POMAR PLAZA

Colorado Springs Astronomical Society
View the sun through solar telescopes. **A**



University of Colorado Colorado Springs - Drones
Learn what makes drones fly. **A**

Yeet 3d LLC Drones and 3d printers
Super fast racing drones and 3D printers. **A**

Planet Walk Colorado Springs
Tour the inner solar system. **A**



oSTEM at UCCS
Build a bridge designed by Leonardo DaVinci. **A**

That Science Fairy
Jug Handle Geometry **Y**

UCCS Biochemistry
Experiment with enzymes from your own saliva that help break down your food. **A**

3. OSBORNE CENTER SCIENCE & ENGINEERING

OUTSIDE 2ND FLOOR
The Western Museum of Mining and Industry
Panning for gold **A**

NOTE:
ALL Carnival Day Activities should be fun for most kids, but for a little guidance: Generally suitable for all ages. **A**
A little better for younger kids. **Y**
A little better for older kids. **O**

OUTSIDE 3RD FLOOR
UCCS HyperFalcons
Magnetic levitation pod. **A**

2ND FLOOR ATRIUM LOBBY
Donor Alliance
You're the surgeon in our life-sized "Operation" game! **A**

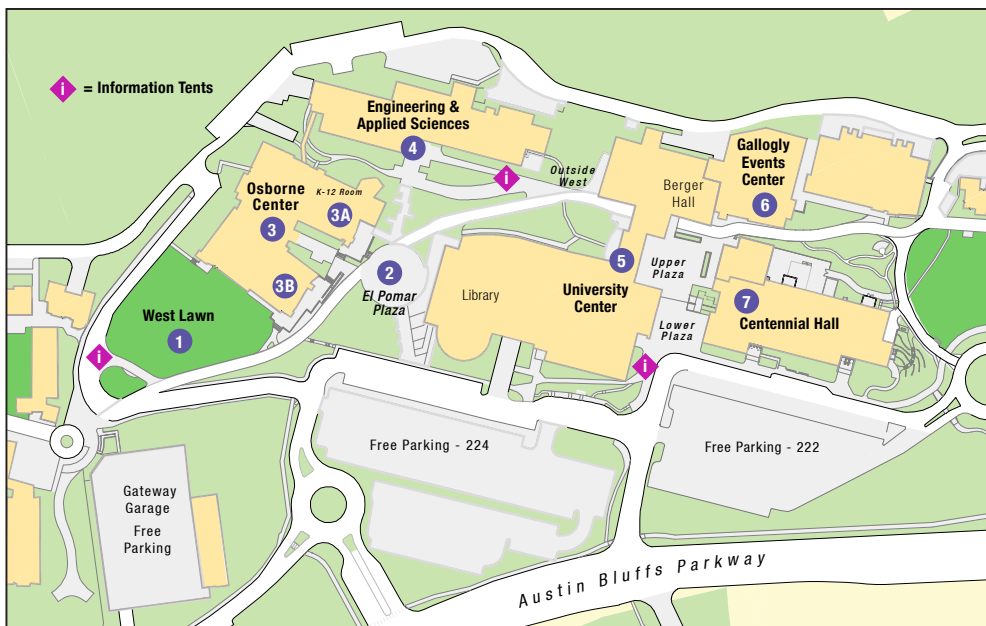


UCCS Physics Department
What does this giant pendulum actually do? **A**

Pikes Peak Community College Engineering
Mousetrap cars and ping-pong ball catapults! **A**

3RD FLOOR ATRIUM LOBBY
UCCS Cyber Security Programs Office
Learn binary code and cybersecurity. **A**

A321 UCCS Cognitive Development Lab
Play a fun memory game to win a prize. **A**



3A. OSBORNE A-WING
2ND FLOOR HALLWAY
Pikes Peak Regional Science and Engineering Fair

How to make an awesome science fair project. **O**

Girl Scouts Of Colorado
Make your own messy "magnetic" slime! **A**

UCCS American Institute of Aeronautics and Astronautics (AIAA) Student Chapter
Rockets, rockets, rockets! **A**

A218 UCCS ASME
Introduction to computer aided design (CAD) **O**

A303 UCCS Mechanical & Aerospace Engineering Machine Shop
Tour the shop, 3D printers, penny catapults. **O**

K-12 ROOM
UCCS STEM Education Outreach - Pre-Collegiate Department
Ice cream in a bag and Makey-Makey veggies. **A**

A327 K-12 ROOM
Colorado Springs Rocket Society (COSROCS)
Build your own model rocket. **O**



UCCS College of Engineering and Applied Science
Pilot an Unmanned Medical Vehicle (UMV) within the bloodstream in a cool video game. **O**

3B. OSBORNE B-WING
B211
UCCS Dept. of Mechanical and Aerospace Engineering
Aerodynamics with paper airplanes and flight simulators. **O**

B216
Nature & Wildlife Discovery Center
Live raptors - birds of prey! **A**

B301 USAFA iGEM Team
Make a plasmid bracelet or water filter. **A**

B314 UCCS Biology Mooney Lab
Insectpalooza! Celebrate all things creepy crawly! **A**

B402 UCCS Natural History Museum
Skulls, skeletons and preserved animals. Dissect owl pellets. **A**

4. ENGINEERING & APPLIED SCIENCES

OUTSIDE
Royal Crest Dairy & Cool Science
Make your own ice cream with liquid nitrogen. **A**

LOBBY STAIRWAY
St. Mary's High School
Build a Berlin Candy Bomber parachute & aim for the bullseye. **A**

P2C4 (Pikes Peak Community College Cybersecurity Club)
Be a Cyber Detective to find hidden messages. **O**

2ND FLOOR LOUNGE



Zometool Inc.
Build cool mathematical models. **O**

230 UCCS Electrical Engineering
Student robotics projects. **A**

5. UNIVERSITY CENTER OUTSIDE UPPER PLAZA

Physics Rock & Roll Band
Noon-12:50pm
Classic rock & roll music by UCCS professors. **A**



Eddie Goldstein: Galileo and the Leaning Tower of "Pizza!"
11:15am, 1:00pm & 2:30pm
Galileo (aka science magician Eddie Goldstein) reenacts his famous Leaning Tower experiment - but with water balloons! **A**

The Aerospace Employee's Radio Organization
You're on the air with ham radio broadcasting. **A**

El Paso County Nature Centers
Big and little critters from the nature centers - including "pond soup" life. **A**

Rick's Garden Center
Dig in our dirt and turn water into colored marbles. **A**

Colorado Parks & Wildlife
Meet live native Colorado fish. **A**

OUTSIDE WEST
Humane Society of the Pikes Peak Region
Play a fun game to learn how to train animals with a clicker. **A**



Anatomy in Clay Learning System
Build muscles with clay. **O**

Challenger Learning Center of Colorado
Drive a Sphero robot through a galaxy maze. **A**

BERGER HALL



The National Society of Leadership and Success
Spaghetti Tower Marshmallow Challenge. **A**



Coronado High School FIRST Robotics Team
Watch the big robots compete and drive little VEX IQ robots yourself. **A**

Cave of the Winds
Geology of caves. **A**

Pueblo Zoo
Check out our live arthropods. **A**