

## 6. UNIVERSITY CENTER - CONTINUED

### 2ND FLR ATRIUM - CONT.

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

**Etio Chiropractic**  
Test your muscle balance. **A**

**UCCS Cognitive Development Lab** Test and improve your memory. **A** **NEW**

**Buell Children's Museum**  
Create air-powered art. **Y**

**US Environmental Protection Agency (EPA)**  
Recycling and composting. **A**

**Simply Kids Dental Duplo**  
Block flossing skills. **Y**

### UC 3RD FLOOR

**Little Richard's Toy Store**  
Play with science toys. **A** **NEW**

**Cool Science**  
Bean Boat Challenge **Y**

**UC 302 - US Air Force Academy:** Physics is Phun!  
30 min shows each hour  
A physics tour-de-force show featuring electricity, a gravity-defying bicycle wheel, magnets, liquid nitrogen ice-cream and more. **A**

**UC 303 - Keysight Technologies** Test electrical circuits, "see" sound with an oscilloscope, explore with hand-held microscopes and more. **O**

## 7. GALLOGLY EVENTS CENTER

**Coronado HS Robotics: Cougars Gone Wired** **A**  
Operate the big robot and play soccer with Vex IQ robots.

**QuestBotics**  
Math, robotics & coding. **A** **NEW**

**St. Mary's High School**  
PVC Marble Challenge **A** **NEW**

**Girl Scouts of Colorado**  
Craft stick launchers. **Y**

**Missile Defense Agency**  
Hoop Gliders **A** **NEW**

**Rocky Mountain Robotics: Team 662** Drive the big robot & build one from spare parts. **A**

**Mark McGough** AI and quantum computing. **O**

**YoungBotBuilders**  
LEGO Great Ball Contraption **A**

**Convergence Game Parts** **O** **NEW**  
The Wide World of 3D Printing

**Dakota Ridge Engineering**  
Build a real bridge designed by Leonardo Da Vinci. **O** **NEW**

### LOBBY

**Lockheed Martin Space** **A**  
Rocket sleds & virtual reality.

### WEST SIDE SPINE

**Planet Walk Colorado Springs** **A**  
Walk a scale model of the inner solar system planets.  
Start at ☀️ - North Info Tent

## 8. CENTENNIAL

**106- UCCS Chemistry and Biochemistry Lab:**  
Enzymes - Builders and Breakers in Your Body  
10am & Noon (K-4th grades)  
11am & 1pm (5th-8th)  
Experiment with enzymes from your own saliva, then view a computer model of these tiny molecules and see research taking place. **O** **NEW**



**203 - Cool Science:**  
Chemistry Magic Show  
10 am & 3 pm Always a fan favorite, experience the wonders of chemistry with Prof. Ron Furstenau in our signature magic show. "Potions" change colors, explode and even freeze right before your eyes. **A**

**203 - Black's Magic:**  
Mission to Mars 11am & 1pm  
Master Magician and Astro-Nut Bruce Black blends comedy, magic and science to take students on an amazing journey to Mars. **A**



**203 - Eddie Goldstein:**  
The Magical Math and Science Show  
Noon & 2:00 pm  
Just back from the Science Buskers Festival in Singapore, world-renowned science educator and magician, Eddie Goldstein will mystify you with incredible feats of Science, Math, and Magic. **A** **NEW**

**203 ENTRY - Peak Vista Community Health Center**  
Baking Soda Balloon Magic! **Y**



### UCCS FARMHOUSE

**UCCS Sustainability, Wellness & Learning (SWELL) Initiative:**  
Heritage Grain Exploration:  
The Science of Sourdough **A**

Dive into the world of grains with threshing/cleaning, milling, flaking, baking, cooking and finish it off with tasting. Get your hands dirty in the kitchen making your own planet friendly energy bites.

[ Note: our farm is home to a hive of very peaceful bees, but if anyone has any allergies please be sure to have your EpiPen on hand. ]

14 Cragmor Village Road

Take Free Shuttle from University Center or Park in Lot 103

### THERE'S MORE!



This festival continues for 8 More Days with over 50 fun STEAM events.  
Something cool for everyone!

**OCT.12-20**

[www.coolscience.org](http://www.coolscience.org)

Full Schedule & Details

## COLORADO SPRINGS COOL SCIENCE FESTIVAL SPONSORS



Schuster Family Foundation  
Bruni Foundation

**THANK YOU** Sponsors, Donors, Presenters and Volunteers who make Carnival Day possible!

Support the Festival and All Cool Science Programs with Your Donation...

[www.coloradogives.org/coolscience](http://www.coloradogives.org/coolscience)

[COLORADOGIVES.ORG](http://COLORADOGIVES.ORG)

**COOL SCIENCE CARNIVAL DAY!**  
**SATURDAY OCT. 12, 2019**  
10am - 4pm

**UCCS** University of Colorado Colorado Springs

**COOL science**

[www.coolscience.org](http://www.coolscience.org)

### DON'T MISS IT!

**Saturday, October 19**  
10am - 4pm



A family-friendly showcase of invention, creativity and resourcefulness, and a celebration of the Maker movement. It's a place where people show what they are making and learning.

**Pikes Peak Library District - Library 21c**  
1175 Chapel Hills Dr. Colorado Springs



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

[www.coolscience.org/carnivalday.html](http://www.coolscience.org/carnivalday.html)

UCCS Public WIFI Available: "UCCS-Guest"



## 1. WEST LAWN

**Civil Air Patrol - Colorado Springs Cadet Squadron A**  
*Build & launch a paper rocket.*

**Martin Marietta** *There's more to concrete than you think.* A

**UpaDowna** *Hi-tech super-cooling bandanas.* A NEW

**Falcon School District 49**  
*Mobile lab with VR and AR stations in a school bus!* O NEW

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

**COS Fire Department A**  
*Fire truck & HAZMAT vehicles.*

**Children's Hospital Colorado**  
*Tour brand new ambulance.* A

## 2. EL POMAR PLAZA

**Sean Bogren Racing Drone Shows** *Every 30 Mins*  
*Watch live on-board video as competitive drones zoom across the sky.* A

**Colorado Springs Astronomical Society**  
*Solar Telescope Viewing* A

**American Medical Response**  
*Emergency Ambulance Tour* A

## 3. OSBORNE CENTER

### OUTSIDE

**Colorado Springs Utilities**  
*Water Conservation station.* A

**UCCS American Institute of Aeronautics and Astronautics (AIAA) Student Club**  
*3 different rocket stations.* A

**UCCS HyperFalcos Team A**  
*Magnetic Levitation Hyperloop*

**Western Museum of Mining and Industry**  
*Panning for gold.* A NEW

## 2ND FLOOR - ATRIUM LOBBY

**UCCS Biofrontiers & UCSS Physics: The Nanoparticle Show and Lab Tour**  
*1pm & 2pm (Meet at the Pendulum) Peek in the labs, look through state-of-the-art microscopes and learn how nanoparticles are used in medicine and computers.* O

**Pikes Peak Library District**  
*1. Building for the ultimate earthquake. 2. Repair Cafe* A

**UCCS Physics Department**  
*What's with the giant Foucault Pendulum?* A

**Donor Alliance / Donate Life Colorado** *Play life-sized "Operation" game.* A NEW

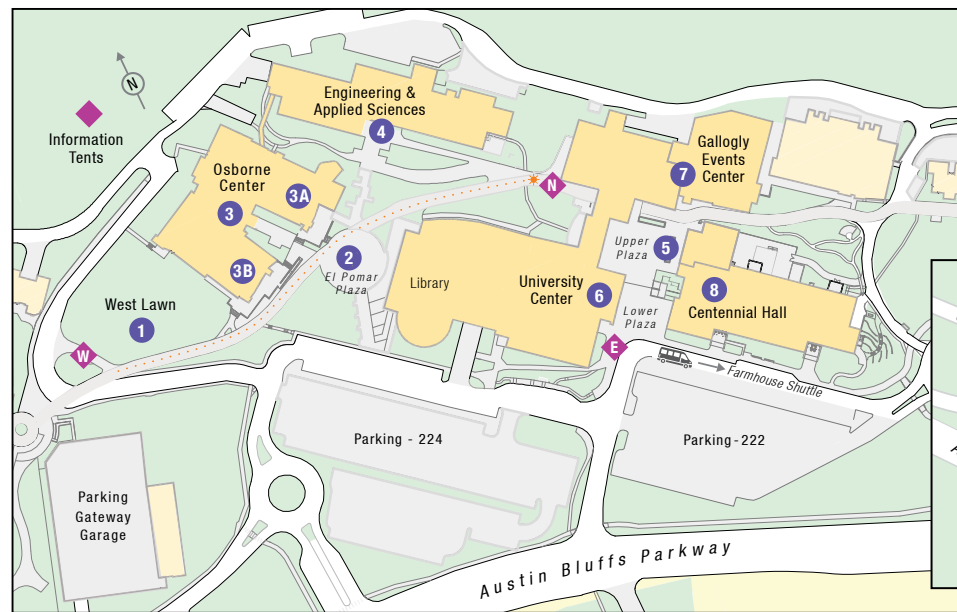
**UCCS Anthropology Club A**  
*Humans & electronic music.* NEW

## 3RD FLOOR - ATRIUM LOBBY

**UCCS Simulation Learning Center** *Robotic child manikin and telepresence robot.* A



**Bel-Rea Institute of Animal Technology**  
*You're the veterinarian.* Y



**Autism Vision of Colorado**  
*Refract light to create an amazing optical illusion.* A NEW

**UCCS Tree Ring Lab**  
*What tree rings tell us.* A NEW

## 4TH FLOOR - ATRIUM LOBBY

**Inventa Academy**  
*Generate electricity and a robot serving lemonade.* A

**CU Denver STEAM Team**  
*Can you dissect a grape faster than a robot?* O NEW

**HOSA - Future Health Professionals** *Play doctor with real medical instruments.* A NEW

**UCCS National Society of Black Engineers**  
*Robots and coding.* O NEW

## 3A. OSBORNE A-WING

**Colorado Springs Utilities A**  
*Electric Safety Demonstration*

**American Numismatic Association**  
*Metal elements and coins.* O

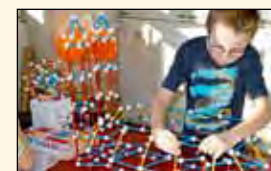
**Pikes Peak Regional Science and Engineering Fair**  
*What's the difference between a science experiment and a demonstration?* O

**COS Chapter American Guild of Organists** *Build and Play a real Pipe Organ.* A NEW



**A204 - Code Wizards Academy** *Write the code to drive robots.* O NEW

**A206 - Zometool:**  
*Shadows from Hyperspace Workshops every 30 minutes*  
*Build and learn a little quantum math with a free ZOMETOOL starter kit.* O NEW



**A218 - UCSS Mechanical & Aerospace Engineering: Solidworks Lab**  
*Drop-in workshops all day*  
*Use computer aided design (CAD) software to create a simple model then bring it to life on a 3D printer.* O

**A301/A302 - Mountain Lion Motorsports:**  
*Electric Race Car Lab Tour*  
*Drop-in tours all day*  
*Learn about electric vehicle development and build your own car with craft sticks.* A

**A311 - MACHINE SHOP UCSS Mechanical and Aerospace Engineering Dept:** *Engineering and Prototyping Shop Tours* O  
*11am, Noon, 1pm* Check out 3D printers plus other tools and machines used for engineering and prototyping.

**A327 - DANIELS K-12 ROOM**  
**Colorado Springs Rocket Society (COSROCS)**  
*Build a flying model rocket.* O

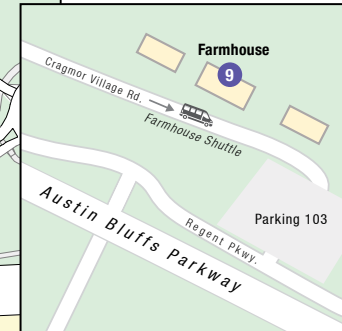
**NOTE** All Carnival Day Activities should be fun for most kids, but for a little guidance:

**A** Generally suitable for All ages.

**Y** A little better for Younger kids.

**O** A little better for Older kids.

**NEW** NEW Exhibitor for 2019



## 3B. OSBORNE B-WING

**B206 - UCSS Musculoskeletal Biomechanics Lab:**  
*Them Bones, Them Bones...*  
*Drop-in tours 10am-3pm*  
*Learn to identify risk of fracture, and make your own candy "spine segments."* A NEW

**B213 - AIAA Student Club**  
*Drop-in tours 10am-3pm*  
*Test your piloting skills on computer flight simulators.* O

**B215 - PPCC Engineering**  
*Ping-pong ball launchers.* A NEW

**B215 - PPCC STEM Club**  
*The Turing Tumble, a marble powered computer.* O NEW

**B216 - US Air Force Academy Mathematics**  
*Hands-on mathematics.* A

## 3RD FLOOR HALLWAY

**Lewis-Palmer Middle School** *Pond Water Microscope Safari* A NEW



**B305 - UCSS Biology Mooney Lab:** *Insectapalooza!*  
*10am, 11am, Noon*  
*Celebrate all things creepy crawlly with live and preserved insects and arthropods.* A NEW

**B314 - UCSS Biology Dept:** *DNA Extraction Lab*  
*Every hour 11am - 4pm*  
*Smash strawberries to isolate their DNA, or extract DNA from your own cheek cells.* O

**B402 - UCSS Natural History Museum:** *Take a Tour*  
*Drop-in all day*  
*Skulls, skeletons and mounts of tigers, hippos, mountain lions and more!* A NEW

## 4. ENGINEERING

### OUTSIDE

**Royal Crest Dairy & Cool Science**  
*Liquid nitrogen ice cream!* A

**1ST FLOOR HALLWAY**  
**Club Chess!!**  
*Chess like never before!* A

**Society of Women Engineers**  
*DIY Newton's Cradle* O

**Launch High School**  
*Crush cans with air.* A NEW

## 2ND FLOOR

**Academy for Advanced and Creative Learning**  
*Marshmallow Moon Landing!* A

**230 - UCSS Dept. of Electrical Engineering:** *Robotics Lab Tour*  
*Drop-in 10am-2pm*  
*NXT SumoBot, Arduino Bot, GPS Robot and more.* A

## 5. UNIVERSITY CENTER - UPPER PLAZA

**Student Members of the American Chemical Society**  
*Color Change Chemistry* A

**Aiken Audubon Society**  
*Bird safety window clings* A NEW

**Aerospace Employee's Radio Organization**  
*Ham radio broadcasting.* A

**AIAA Rocky Mountain Section**  
*Kitchen rocket science* Y NEW

**UCSS Physics: Rock & Roll Band** *11:30 am & 12:30 pm*  
*Classic Rock & Roll music by UCSS Professors* A

**Lori K. Bogren - The Explosion Show**  
*10:30am & 1:30 pm*  
*What more do you need to say, lots of things go boom in this popular show!* A

## 6. UNIVERSITY CENTER

### 1ST FLOOR

**Colorado Parks & Wildlife**  
*Live Colorado native fish.* A

**116A - Cheyenne Mountain Zoo ZOOMobile**  
*Meet and touch live animals.* Y

**116B - Nature and Wildlife Discovery Center** *Meet hawks, owls, and falcons.* A

**122 - Beekeeping with Leigh Gaddy** *Honeybee Science for kids.* A

**122 - Pikes Peak Mycological Society** *Mushrooms of Colorado and beyond.* A

**124 - Cool Science**  
*Sound Exploration Lab* A

**126 - Toys 2Life**  
*Bring your toys to life!* A

### SECOND FLOOR ATRIUM

**Dinosaur Resource Center**  
*Let's talk dinosaurs.* A

**Food & Drink at University Center** *Sanatorium Grounds Coffee Shop (2nd Flr) 7:30 am-1 pm*  
*Café 65 Food Court (2nd Flr) 11 am-1 pm* *Clyde's Gastropub (1st Flr) 1pm-9pm*