

2017 Colorado Science and Engineering Fair Grand Awards Press Release

Junior Division Best CSEF Project

First Place
Kathryn Kummel 8th grade
Gone with the Wind: The Horseshoe Vortex Behind Tree Islands on Pikes Peak & Impact on Tree Growth
North Middle School Colorado Springs

Second Place
Scott Prieve 8th grade
To Rip or To Rap: How Does the Design of Erosion Control on a Creek Bend Affect Bank Deterioration?
North Middle School Colorado Springs

Third Place
Henry Foisie 7th grade
Easy Peazy Piezo Power
The Classical Academy Colorado Springs

Senior Division Best CSEF Project

First Place
Isani Singh 11th grade
Worse Outcomes in Turner Syndrome Women Compared to Women Without Turner Syndrome
Cherry Creek High School Englewood

Second Place
Elliot Gorokhovskiy 12th grade
Adding Data-Aware Sort Optimizations to C-Python
Fairview High School Boulder

Third Place
Molly Nehring 10th grade
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection
Monte Vista High School Monte Vista

Fourth Place
Seth Young 12th grade
Applied Biomineralization: Increasing Magnetosome Formation in AMB-1 for Industrial Purposes Through Genetic Recombination of Genes Essential to Magnetosome Formation and Mutation Mediated by UV Radiation
The Classical Academy Colorado Springs

Fifth Place
Aubrey Berger 11th grade
Mechanized Collection of Organic Spider Silk
Eaglecrest High School Centennial

Junior Division Animal Sciences

First Place
Alexandra Dalton 8th grade
Lobelia vs. Daphnia
Peak to Peak Charter School Lafayette

Second Place
Elishevlyne Eliason 8th grade
The Least of Us
Challenge School Denver

Third Place
Camille Rawinski 7th grade
Do Female Quarter Horses Have Better Memory Than Males? Yay or Neigh?
Monte Vista Middle School Monte Vista

Fourth Place
Michael Erwin & Carter Larsen 8th grade
Planarian Regeneration and Its Effect on Behavioral Memory Retention
Challenge School Denver

Honorable Mention
Charlese Satterfield 7th grade
Bigger Eggs for Peanuts
Canon Exploratory School Canon City

Honorable Mention
Libby Schelich 7th grade
Cup vs. Normal Incubation Showdown
Eaton Middle School Eaton

Honorable Mention
Lilly Figueroa 6th grade
What in the Whorl!
Mancos Middle School Mancos

Honorable Mention
Chelsey Hale 7th grade
Caution: Is Turf Toxic?
The Classical Academy Colorado Springs

Senior Division Animal Sciences

First Place
Felix Channiago 10th grade
The Effect of Airborne Vibration on Sensory Hairs (Trichobothria) of Phidippus Jumping Spiders
Conifer High School Conifer

Second Place
Amrita Purkayastha 11th grade
Role of Endothelin Receptor B in Vertebrate Pigment Cell Evolution
Fairview High School Boulder

Third Place
Sydnee Roth 10th grade
Don't Stress Me Out!
Liberty School Joes

Fourth Place
Elissa Velasquez 9th grade
Epi(c)genetics
Dolores Huerta Preparatory High School Pueblo

Junior Division Behavioral & Social Sciences

First Place
Ellie Schueler 8th grade
Violence in the Media: An Analysis of the Effects of Media Violence on Mental and Physical Health
North Middle School Colorado Springs

2017 Colorado Science and Engineering Fair Grand Awards Press Release

Second Place

Blakeley Bennett 8th grade
Got Color Cognition?
 North Middle School Colorado Springs

Third Place

Madison Hening 7th grade
The Effect of Music on Cardiovascular Physiology
 St. Columba Catholic School Durango

Fourth Place

Hayli Mackey 8th grade
The Effects of Cognitive Distraction on Reaction Times
 Springfield Jr/Sr High School Springfield

Honorable Mention

Sophia Murray 8th grade
Mind the Gap: Growth Mindset and Gender
 Summit Charter Middle School Boulder

Honorable Mention

Kristyn Cameron 8th grade
Is President Trump Correct About Attitudes Toward Immigration?
 The Classical Academy Colorado Springs

Honorable Mention

Ethan Pattison Shoop 7th grade
The Music of Typing
 STEM High & Academy Highlands Ranch

Honorable Mention

Sophie Eschallier 6th grade
Exercise: A Wonder of Science
 Mancos Middle School Mancos

Honorable Mention

Emma Stone & Reiley Leake 8th grade
Which Is the Fairest of Them All?
 Brush Middle School Brush

Honorable Mention

Isaac Fayram 8th grade
The Winning Touch
 Blevins Middle School Fort Collins

Senior Division Behavioral & Social Sciences

First Place

Scott Litwiler 11th grade
Teenagers Texting While Driving: Computerized Eye Tracking as a Method to Assess Visual Distraction During Driving Simulations
 Fairview High School Boulder

Second Place

Tyler Giallanza 12th grade
 Andrew Ying 11th grade
Overcoming Cognitive Biases in Mathematical Finance: An Artificial Intelligence Approach
 Cherry Creek High School Greenwood Village

Third Place

Edwin Bodoni 10th grade
 Evelyn Bodoni 9th grade
Hearts Over Minds
 Cherry Creek High School Greenwood Village

Fourth Place

Sarah Davidson 11th grade
Differences in Functions of Proprioceptive Feedback Mechanisms: In Shod and Barefoot Conditions
 Nederland Middle-Senior High School Nederland

Honorable Mention

Angel Castillo 9th grade
"Extra" Focus
 West Grand High School Kremmling

Junior Division Chemistry & Biochemistry

First Place

Grace Valentine 7th grade
The Effect of Cocoa Content, Cooling Time and Heating Temperature on the Tempering of Chocolate
 Most Precious Blood Catholic School Denver

Second Place

Kaydee Dodge 8th grade
Pumpkin Preservation Part 3: Evaluating Hazards of Petroleum Jelly as a Jack'o Lantern Preservative
 Craver Middle School Colorado City

Third Place

Kobi Hobert 8th grade
Iron Oxide
 Turner Middle School Berthoud

Fourth Place

Dustin Medina 8th grade
Plop-Plop Fizz-Fizz: How Does Surface Area and Temperature Affect Chemical Reaction Rates?
 Corwin International Magnet School Pueblo

Honorable Mention

Tyler Burt 8th grade
BPANIC?
 North Arvada Middle School Arvada

Honorable Mention

Ethan Hotz 8th grade
How Cool Is That Light?
 Monte Vista Middle School Monte Vista

Honorable Mention

Noah Randall 8th grade
Biodegradable Darts
 Flagstaff Academy Longmont

Honorable Mention

Kylea Roitsch 8th grade
Leaching Chemicals
 The Classical Academy Colorado Springs

2017 Colorado Science and Engineering Fair

Grand Awards Press Release

Honorable Mention

Payton Brown 8th grade
Hemp Hemp Hooray
 Sargent Jr/Sr High School Monte Vista

Senior Division Energy

First Place

Jay Chandra 11th grade
Carbon Coatings on a Copper Antimonide Anode for Enhanced Performance and Lifetime in Rechargeable Metal-Ion Batteries
 Fossil Ridge High School Fort Collins

Second Place

Ashley Aguilar 12th grade
Converting Mechanical Vibrations into Electrical Energy Via Dielectric Elastomer Generators (DEGs)
 New Vista High School Boulder

Third Place

Claire Victor 12th grade
Renewable Hydrogen and Fuel Cells: The Future of Energy
 Centaurus High School Lafayette

Fourth Place

Max Markuson DiPrince 11th grade
Windmill Efficiency Part 2: Replicating & 3D Printing Natural Leaf Designs on a Vertical-axis Turbine
 Central High School Pueblo

Honorable Mention

Daniel Orbidan & Ethan Simpson 10th grade
The Impact of Rutile Phase Titania Nanowire Length on Periphyton Colonization and Voltage Output
 SkyView Academy Highlands Ranch

Honorable Mention

Michelle Ren & Julianna O'Clair 10th grade
Energy Production of Microbial Fuel Cells
 Brush High School Brush

Junior Division Engineering

First Place

Marissa Jordan 8th grade
A Softer Side of Robots: Using Grippers Made From Soft Materials
 Home School Ignacio

Second Place

Ellie Clark 7th grade
Fabric Nanofinishing: Adventures in Textile Engineering
 St. Columba Catholic School Durango

Third Place

Tate Schrock 7th grade
H2 and O2 Generator Fabrication & PEM Fuel Cell Efficiency
 Arickaree School Anton

Fourth Place

Allison Rose 7th grade
Engineering Design of an Improved Grasper for Eating Cheesy-Sticky Snacks
 The Classical Academy Colorado Springs

Honorable Mention

Kylie Walters 7th grade
The Blind Side
 The Classical Academy Colorado Springs

Honorable Mention

Alden Kruse 8th grade
Into Thin Air: A Search for Microbes in the Stratosphere
 Home School Colorado Springs

Honorable Mention

Samuel Uyemura 8th grade
The Future of Flight
 Buchanan Middle School Wray

Honorable Mention

Nicholas Huber 7th grade
Solar Still Design Efficiency
 St. Columba Catholic School Durango

Senior Division Engineering

First Place

Aubrey Berger 11th grade
Mechanized Collection of Organic Spider Silk
 Eaglecrest High School Centennial

Second Place

Anurag Golla 12th grade
Motility Optimization of the PNIPAm Based Drug Delivery System
 Fairview High School Boulder

Third Place

Isaac Jordan 11th grade
A Novel Approach for Sensing Seismic Events: Applications of Graphene Nano-flake Powder Composites
 Animas High School Durango

Fourth Place

Amy Nguyen & Katherine Tran 9th grade
Let It Flow: Developments of a New Two-Leaflet Bovine Tissue Mitral Valve Replacement
 DSST: College View High School Denver

Honorable Mention

Chase Cromwell 9th grade
Stampede Arm
 Lamar High School Lamar

Honorable Mention

Krithik Ramesh 9th grade
Redesigning the Jet Engine to be Impervious to Foreign Contaminants: Part Two
 Cherry Creek High School Greenwood Village

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Grand Awards Press Release

Junior Division Environmental Sciences

First Place
 Scott Prieve 8th grade
To Rip or To Rap: How Does the Design of Erosion Control on a Creek Bend Affect Bank Deterioration?
 North Middle School Colorado Springs

Second Place
 Nathaniel Brim 8th grade
Depuration Kinetics of Activated Carbon with Ion Exchange Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous Solutions contaminated with Heavy Metals
 The Classical Academy Colorado Springs

Third Place
 Kaleb Andreatta 8th grade
 Cavin McCay 7th grade
Enhancing the Survival of Microinvertebrates in Rural Waste Water Treatment Plants
 La Veta Schools La Veta

Fourth Place
 Grace Ramsey 7th grade
Worming Around With Compost
 Windsor Charter Academy Windsor

Honorable Mention
 Grace Romero 8th grade
The Effect Water Pollutants Have on Vegetation
 Aspen Middle School Aspen

Senior Division Environmental Sciences

First Place
 Alyssa Rawinski 10th grade
Western Snowy Plover Nest Site Characteristics and Use of Drone Imagery in Predicting Potential Nest
 Monte Vista High School Monte Vista

Second Place
 Eric Bear 11th grade
Determining Water Treatment Planning Using a Classification Model Neural Network
 Colorado Academy Denver

Third Place
 Mitchell Fosdick 12th grade
The Uptake of Copper Ions by Chlorella Vulgaris
 Fowler High School Fowler

Fourth Place
 Max Warnock 9th grade
The Impact of Odor Control Clothing on Water Boatmen (Corixidae)
 Poudre Global Academy Fort Collins

Honorable Mention
 Michael Savala 10th grade
Ferro-Solution? Can Iron Nanoparticles Help with Oil Spill Clean-up?
 Monte Vista High School Monte Vista

Junior Division Math & Computer Sciences

First Place
 Sara Nehring 8th grade
Over the Hill and Through the Codes to Encryption and Decryption We Go!
 Monte Vista Middle School Monte Vista

Second Place
 Charles Rothbaum 8th grade
Learning Robots
 Corwin International Magnet School Pueblo

Third Place
 Elizabeth Sundheim 8th grade
Monte Python and the Search for the Perfect Plinko Placement
 St. John the Evangelist Catholic School Loveland

Fourth Place
 Jack Balaguer 8th grade
Rally Time: The Effects of Psychological Momentum in Baseball
 Summit Charter Middle School Boulder

Honorable Mention
 Jeffery Knutson 7th grade
Behind the Screen (of Gaming)
 Manzanola Junior High School Manzanola

Honorable Mention
 Shreyas Sriram 7th grade
Designing a Crowd-Sourced Weather Alert System
 Challenge School Denver

Senior Division Math & Computer Sciences

First Place
 Elliot Gorokhovskiy 12th grade
Adding Data-Aware Sort Optimizations to C-Python
 Fairview High School Boulder

Second Place
 Elia Gorokhovskiy 10th grade
A Method for the Reduction of Time Error in the Ensemble Adjustment Kalman Filter
 Fairview High School Boulder

Third Place
 Daniel Zamoshchin 9th grade
Predicting Clickbait Headlines Using Machine Learning and the Naive Bayes Classifier
 Cherry Creek High School Greenwood Village

Fourth Place
 Stephanie Zhang 11th grade
Gene Expression and Diseases Phase II: Developing a Model to Predict Cancer Progression
 Fairview High School Boulder

2017 Colorado Science and Engineering Fair Grand Awards Press Release

Honorable Mention

Colin Burdine 12th grade
Determining the Complexity of Boolean Formulae Modeling NP Decision Problems
 Cherry Creek High School Greenwood Village

Junior Division Medicine & Health

First Place

Jason Cui 7th grade
Powerful Natural Antibiotics
 Southern Hills Middle School Boulder

Second Place

Lauren Linnebur & Malayne Perry 7th grade
Student Health Literacy and Snack Consumption in Elementary and Middle Schools
 Liberty Middle School Aurora

Third Place

Charlotte Granrud 7th grade
Which Sunscreen Provides the Most Protection from Harmful Sun Rays?
 Frontier Academy Greeley

Fourth Place

Evie Upchurch 7th grade
Nice Ice?
 The Classical Academy Colorado Springs

Honorable Mention

Colleen Farrell 7th grade
Hidden Dangers of the Doctor's Office
 Eagle County Charter Academy Edwards

Honorable Mention

Juliana Kelley 8th grade
Organic: "Can" It Be Better?
 Pueblo School for Arts & Sciences Pueblo

Honorable Mention

D'Neil Doyle 8th grade
Dangerous Temptations
 Walsh Jr/Sr High School Walsh

Senior Division Medicine & Health

First Place

Isani Singh 11th grade
Worse Outcomes in Turner Syndrome Women Compared to Women Without Turner Syndrome
 Cherry Creek High School Englewood

Second Place

Ibrohim Nosirov 9th grade
Use of SPECT Imagery to Establish a General Statistical Predictive Model for Dementia
 SkyView Academy Highlands Ranch

Third Place

Hari Sowrirajan 11th grade
Optimization of Zinc Oxide Nanoparticles for Vaccine Delivery
 Cherry Creek High School Greenwood Village

Fourth Place

Chelsea Wang 11th grade
Alterations in Sleep Architecture Resulting from Amygdala Kindling in Mice
 Fossil Ridge High School Fort Collins

Honorable Mention

Solomon Bloomfield 11th grade
Amph-1 Knockdown Aggravates Pathogenesis of Alzheimer's Disease in Caenorhabditis Elegans
 Fairview High School Boulder

Honorable Mention

Katherine Larson 11th grade
Electrical Impedance Tomography as a Tool for Detecting Tumors
 Home School Colorado Springs

Junior Division Microbiology & Molecular Biology

First Place

Anjali Chaparala 8th grade
Gut Less Sugar
 The Classical Academy Colorado Springs

Second Place

Anika Fergusson 8th grade
pH and Probiotics: Is Traditional Yogurt Better?
 Summit Charter Middle School Boulder

Third Place

Maya Monks & Annika Reeder-Holman 7th grade
Effect of Teeth Brushing and Chewies on Canine Oral Bacterial Count
 Stanley British Primary School Denver

Fourth Place

Jocelynn Elizabeth King 7th grade
Farm vs Pharmacy
 Challenge School Denver

Senior Division Microbiology & Molecular Biology

First Place

Seth Young 12th grade
Applied Biomineralization
 The Classical Academy Colorado Springs

Second Place

Peyton Leyendecker 9th grade
Manuka Honey Surgical Adhesive
 SkyView Academy Highlands Ranch

Third Place

Kaitlyn Carson 12th grade
The Effects of Wash Water Temperature on Egg Shell Permeability
 Windsor High School Windsor

Fourth Place

Cassidy Plane 12th grade
Can This Macromolecule Captivate Your Miroorganisms?
 Alamosa High School Alamosa

2017 Colorado Science and Engineering Fair Grand Awards Press Release

Honorable Mention

Elora Smith 10th grade
That Gut Feeling: Identifying the Gut Microboita in Different Groups of Children
Sargent Jr/Sr High School Monte Vista

Honorable Mention

Avi Swartz 12th grade
Statistical Analysis of Graft vs. Host Disease and Immune Reconstitution in Humanized Mice
Cherry Creek High School Greenwood Village

Honorable Mention

Sarah Danekind & Tesla Newton 12th grade
Cultivation of Soil Bacteria Across Stress Gradients
Monarch High School Louisville

Junior Division Physics

First Place
Corey Schanker 8th grade
Kinetic Energy
Turner Middle School Berthoud

Second Place
Olivia Greene 7th grade
The Need for Speed
The Classical Academy Colorado Springs

Third Place
Xander Duvall 6th grade
Magnetic Effects on Subatomic Particles
Thomas MacLaren School Colorado Springs

Fourth Place
Alyssa Lee 8th grade
The Physics of Flying: G-Forces in Aerial Dance
Summit Charter Middle School Boulder

Honorable Mention
Matthew Anderson 7th grade
How the Percentage of Alpha Particles Shielded Changes with Different Types of Shielding
Challenge School Denver

Senior Division Physics

First Place
Molly Nehring 10th grade
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection
Monte Vista High School Monte Vista

Second Place
Katie Gorsline 11th grade
Friction and Penetration
Greeley West High School Greeley

Third Place
Sai Kaushik Yeturu 12th grade
A Bio-inspired Saddle Mechanism for Mechanical Energy Storage
Peak to Peak Charter School Lafayette

Fourth Place
Christoph Cikraji 12th grade
Artificial Gravity Concept for Sustainable Space
Durango High School Durango

Junior Division Plant Sciences

First Place
Anuradha Prakash 8th grade
Pee Is for Plants
Summit Charter Middle School Boulder

Second Place
Elias Arredondo 6th grade
Fish Fertilizer: The Correlation Between Fish and Foliage
Monte Vista On-line Academy Monte Vista

Third Place
Sofia Bader 8th grade
Build the Swamp
Miller Middle School Durango

Fourth Place
Parker Stone 6th grade
Get It Ripe
Beaver Valley Elementary School Brush

Honorable Mention
Sarah Duzenack 8th grade
A Comparison of Endomycorrhizae and Commercial Fertilizer on Fodder Crops: Year 3
La Veta Schools La Veta

Honorable Mention
Caleb Rigggenbach 8th grade
The Little Things in Life A Study on Microorganisms
Monte Vista Middle School Monte Vista

Senior Division Plant Sciences

First Place
Michelle Kummel 11th grade
Microclimatological Feedbacks at Treeline
Palmer High School Colorado Springs

Second Place
Isabella Bowland 11th grade
Bad Altitude: Climate Change in the Alpine May Alter Beneficial Plant-Fungal Relationships
Fairview High School Boulder

Third Place
Casey Shaw 11th grade
Make Way for Duckweed: Observing the Growth Rates of Lemna and its Effect on Atmospheric Carbon Dioxide Concentrations in a Simulated Carbon Sink
Liberty School Joes

Fourth Place
Parker Randolph 10th grade
Examining the Effects of Martian Soil, Additives, Water Quality, and Companion Planting on Biomass a
Monte Vista High School Monte Vista

2017 Colorado Science and Engineering Fair Special Awards Press Release

CSEF Awards

Poster Art Contest

Angel Castillo 9th grade
\$100, certificate
West Grand High School Kremmling

Elemer Bernath Technical Writing Award

Anika Fergusson 8th grade
\$100, certificate
Summit Charter Middle School Boulder
pH and Probiotics: Is Traditional Yogurt Better?

Ralph Desch Memorial Technical Writing Award

Elia Gorokhovskiy 10th grade
\$100, certificate
Fairview High School Boulder
A Method for the Reduction of Time Error in the Ensemble Adjustment Kalman Filter

Student Choice Award

Kathryn Kummel 8th grade
\$100, trophy, certificate
North Middle School Colorado Springs
Gone with the Wind: The Horseshoe Vortex Behind Tree Islands on Pikes Peak & Impact on Tree Growth

Seth Young 12th grade
\$100, trophy, certificate
The Classical Academy Colorado Springs
Applied Biomineralization: Increasing Magnetosome Formation in AMB-1 for Industrial Purposes Through Genetic Recombination of Genes Essential to Magnetosome Formation and Mutation Mediated by UV Radiation

Pioneers of Science Awards

Temple Grandin Award

Katelyn Carpenter 7th grade
\$50, certificate, poster of pioneer scientist
Dolores Middle School Dolores
Bite

Sigmund Freud Award

Sophie Eschallier 6th grade
\$50, certificate, poster of pioneer scientist
Mancos Middle School Mancos
Exercise: A Wonder of Science

Margaret Mead Award

Chance Hill 6th grade
\$50, certificate, poster of pioneer scientist
Walt Clark Middle School Loveland
The Stroop Effect

John Dalton Award

Kaydee Dodge 8th grade
\$50, certificate, poster of pioneer scientist
Craver Middle School Colorado City
Pumpkin Preservation Part 3: Evaluating Hazards of Petroleum Jelly as a Jack'o Lantern Preservative

Edwin Hubble Award

Adrian Pizano 8th grade
\$50, certificate, poster of pioneer scientist
Rocky Ford Jr/Sr High School Rocky Ford
Testing the Waters

Christa McAuliffe Award

Kadence Kunselman 7th grade
\$50, certificate, poster of pioneer scientist
Walsh Jr/Sr High School Walsh
I've Got the Power

Hedy Lamarr Award

Leighton Burt 12th grade
\$50, certificate, poster of pioneer scientist
Sargent Jr/Sr High School Monte Vista
Life Saving Locating: Developing Autonomous Avalanche Rescue Part 3

Nicola Tesla Award

Ellie Clark 7th grade
\$50, certificate, poster of pioneer scientist
St. Columba Catholic School Durango
Fabric Nanofinishing: Adventures in Textile Engineering

Rachel Louise Carson Award

Paul Knight 8th grade
\$50, certificate, poster of pioneer scientist
Miller Middle School Durango
Tidy Up Those Tailings

Gifford Pinchot Award

Eden Sears 8th grade
\$50, certificate, poster of pioneer scientist
Liberty School Joes
Ripples in the Water

Ada Lovelace Award

Elizabeth Sundheim 8th grade
\$50, certificate, poster of pioneer scientist
St. John the Evangelist Catholic School Loveland
Monte Python and the Search for the Perfect Plinko Placement

Grace Hopper

Jeffery Knutson 7th grade
\$50, certificate, poster of pioneer scientist
Manzanola Junior High School Manzanola
Behind the Screen (of Gaming)

2017 Colorado Science and Engineering Fair Special Awards Press Release

Elizabeth Blackwell Award

D'Neil Doyle 8th grade
\$50, certificate, poster of pioneer scientist
Walsh Jr/Sr High School Walsh
Dangerous Temptations

G. V. Black Award

Sarah-Cate Ogden 8th grade
\$50, certificate, poster of pioneer scientist
Eaton Middle School Eaton
Fat Cat

Louis Pasteur Award

Anika Fergusson 8th grade
\$50, certificate, poster of pioneer scientist
Summit Charter Middle School Boulder
pH and Probiotics: Is Traditional Yogurt Better?

Albert von Szent-Gyorgyi Award

Thomas Ferrell 6th grade
\$50, certificate, poster of pioneer scientist
Home School Durango
Learning Physics Using a Pendulum and an Arduino

Luther Burbank Award

Anuradha Prakash 8th grade
\$50, certificate, poster of pioneer scientist
Summit Charter Middle School Boulder
Pee Is for Plants

Organizational Awards

Air & Waste Management Association Rocky Mountain Section

Air & Waste Management Award

Kathryn Kummel 8th grade
\$50
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Kody Donnelson 6th grade
\$100
Fleming Middle School Fleming
*Marble, Marble, Everywhere and What an Acid Rain Drop Will
Do*

Max Warnock 9th grade
\$50
Poudre Global Academy Fort Collins
*The Impact of Odor Control Clothing on Water Boatmen
(Corixidae)*

Nathaniel Miner & Drake Ludgate 10th grade
\$100
Brush High School Brush
Black Carbon Detection: A Regional Snow Survey

American Association of University Women

AAUW Award for Women in STEM

Kaydee Dodge 8th grade
\$100
Craver Middle School Colorado City
*Pumpkin Preservation Part 3: Evaluating Hazards of
Petroleum Jelly as a Jack'o Lantern Preservative*

Aaliyah Garcia 10th grade
\$100
Center High School Center
Wildland Firefighter Defense System: Phase Two

American Chemical Society

Colorado Local Section

ACS Award

Tyler Burt 8th grade
\$50
North Arvada Middle School Arvada
BPANIC?

Dustin Medina 8th grade
\$50
Corwin International Magnet School Pueblo
*Plop-Plop Fizz-Fizz: How Does Surface Area and Temperature
Affect Chemical Reaction Rates?*

Noah Randall 8th grade
\$50
Flagstaff Academy Longmont
Biodegradable Darts

Grace Valentine 7th grade
\$50
Most Precious Blood Catholic Denver
*The Effect of Cocoa Content, Cooling Time and Heating
Temperature on the Tempering of Chocolate*

Ethan Hotz 8th grade
\$150
Monte Vista Middle School Monte Vista
How Cool Is That Light?

Kylie Franklin & Lauren Wood 11th grade
\$50
Campo School Campo
It's Electro...phoresis!

Katelynn Salmon 10th grade
\$50
Palmer Ridge High School Monument
*Biotoxification and Quantification of N-Nitrosamines by
Symbiotaphrina kochii*

Danae Beauprez 10th grade
\$50
Yuma High School Yuma
Dying To Know: How Quickly Does Hair Dye Leach Out?

2017 Colorado Science and Engineering Fair Special Awards Press Release

Joshua Chapman 12th grade
\$50
Cherry Creek High School Greenwood Village
General Formula for Deriving Reaction Rate Constants

Kyle Fridberg 11th grade
\$150
Fairview High School Boulder
A Novel Method of Producing Colloidal Gold Nanoparticles from Gold Ore and Aqueous Sulfuric Acid

American Industrial Hygiene Association Rocky Mountain Section *Excellence in Protection of Health and the Environment Award*

Mindi Carr 8th grade
\$50
Genoa-Hugo School Hugo
Deep Knee Bends

Aaliyah Garcia 10th grade
\$200
Center High School Center
Wildland Firefighter Defense System: Phase Two

American Institute of Aeronautics & Astronautics Rocky Mountain Section

Excellence in Aeronautics & Astronautics Award

Tate Schrock 7th grade
certificate, Arduino kit, 1 year AIAA student membership
Arickaree School Anton
H2 and O2 Generator Fabrication & PEM Fuel Cell Efficiency

Alden Kruse 8th grade
certificate, Arduino kit, 1 year AIAA student membership
Home School Colorado Springs
Into Thin Air: A Search for Microbes in the Stratosphere

Molly Nehring 10th grade
certificate, Arduino kit, 1 year AIAA student membership
Monte Vista High School Monte Vista
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

Aubrey Berger 11th grade
certificate, Arduino kit, 1 year AIAA student membership
Eaglecrest High School Centennial
Mechanized Collection of Organic Spider Silk

American Institute of Chemical Engineers Rocky Mountain Section

Excellence in Chemical Engineering Award

Dustin Medina 8th grade
\$75
Corwin International Magnet School Pueblo
Plop-Plop Fizz-Fizz: How Does Surface Area and Temperature Affect Chemical Reaction Rates?

Nathaniel Brim 8th grade
\$100
The Classical Academy Colorado Springs
Depuration Kinetics of Activated Carbon With Ion Exchange Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous Solutions contaminated with Heavy Metals

Brendan Gould 9th grade
\$75
The Classical Academy Colorado Springs
Going Bananas: Using Banana Peels in Polymerization Reactions to Produce Thermoplastics

Michael Savala 10th grade
\$100
Monte Vista High School Monte Vista
Ferro-Solution? Can Iron Nanoparticles Help with Oil Spill Clean-up?

American Institute of Professional Geologists Colorado Section

AIPG Certificate of Excellence in the Geosciences

Nathaniel Brim 8th grade
\$50
The Classical Academy Colorado Springs
Depuration Kinetics of Activated Carbon with Ion Exchange Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous Solutions contaminated with Heavy Metals

Scott Prieve 8th grade
\$100
North Middle School Colorado Springs
To Rip or To Rap: How Does the Design of Erosion Control on a Creek Bend Affect Bank Deterioration?

Isaac Jordan 11th grade
\$50
Animas High School Durango
A Novel Approach for Sensing Seismic Events: Applications of Graphene Nano-flake Powder Composites

Kyle Fridberg 11th grade
\$100
Fairview High School Boulder
A Novel Method of Producing Colloidal Gold Nanoparticles from Gold Ore and Aqueous Sulfuric Acid

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American Meteorological Society Denver/Boulder Chapter

Award for Excellence in Atmospheric Science

Kathryn Kummel 8th grade
gift certificate, certificate
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Kate DeMarsh & Madison Bohling 12th grade
gift certificate, certificate
Monarch High School Louisville
*Cape Verde Hurricanes: How Genesis Point Impacts Landfall
Latitude*

American Public Power Association & Platte River Power Authority

Special Award for Demonstration of Energy & Efficiency Development

Juno Gregg 7th grade
\$100
Skinner Middle School Denver
*The Effect of Electricity's Fields on the Strength of an
Electromagnet*

Claire Victor 12th grade
\$150
Centaurus High School Lafayette
Renewable Hydrogen and Fuel Cells: The Future of Energy

Special Award for Environmental Innovation

Rewa Raizada 7th grade
\$100
STEM High & Academy Highlands Ranch
Water Conservation Using SMART Technology

Jay Chandra 11th grade
\$150
Fossil Ridge High School Fort Collins
*Carbon Coatings on a Copper Antimonide Anode for Enhanced
Performance and Lifetime in Rechargeable Metal-Ion Batteries*

American Statistical Association Colorado/Wyoming Chapter David Young Memorial Award

Matthew Anderson 7th grade
\$200, student membership in American Statistical Association,
acknowledgement at chapter spring meeting and on chapter
web site
Challenge School Denver
*How the Percentage of Alpha Particles Shielded Changes with
Different Types of Shielding*

Isani Singh 11th grade
\$200, student membership in American Statistical Association,
acknowledgement at chapter spring meeting and on chapter
web site
Cherry Creek High School Englewood
*Worse Outcomes in Turner Syndrome Women Compared to
Women without Turner Syndrome*

American Vacuum Society Rocky Mountain Chapter

Excellence in Physical Sciences & Engineering Award

Kylea Roitsch 8th grade
\$50, \$50 matching award to teacher/sponsor
The Classical Academy Colorado Springs
Leaching Chemicals

Xander Duvall 6th grade
\$100, \$100 matching award to teacher/Sponsor
Thomas MacLaren School Colorado Springs
Magnetic Effects on Subatomic Particles

Claire Victor 12th grade
\$50, \$50 matching award to teacher/sponsor
Centaurus High School Lafayette
Renewable Hydrogen and Fuel Cells: The Future of Energy

Isaac Jordan 11th grade
\$100, \$100 matching award to teacher/Sponsor
Animas High School Durango
*A Novel Approach for Sensing Seismic Events: Applications of
Graphene Nano-flake Powder Composites*

ASM International

ASM Materials Education Foundation Award

Kyle Fridberg 11th grade
\$100
Fairview High School Boulder
*A Novel Method of Producing Colloidal Gold Nanoparticles
from Gold Ore and Aqueous Sulfuric Acid*

Jay Chandra 11th grade
\$150
Fossil Ridge High School Fort Collins
*Carbon Coatings on a Copper Antimonide Anode for Enhanced
Performance and Lifetime in Rechargeable Metal-Ion Batteries*

Biomedical Engineering Society

Excellence in Biomedical Engineering Award

Marissa Jordan 8th grade
goody bag of BME stuff
Home School Ignacio
*A Softer Side of Robots: Using Grippers Made From Soft
Materials*

2017 Colorado Science and Engineering Fair Special Awards Press Release

Chase Cromwell 9th grade
 goody bag of BME stuff
 Lamar High School Lamar
Stampede Arm

Amy Nguyen & Katherine Tran 9th grade
 \$50, goody bag of BME stuff
 DSST: College View High School Denver
Let It Flow: Developments of a New Two-Leaflet Bovine Tissue Mitral Valve Replacement

Biophysical Society

Biophysics Award

Caroline Jennings 10th grade
 \$100, certificate
 The Classical Academy Colorado Springs
Population Dynamics of Predation in a Competitive Lupine-Ovine-Grassland Ecosystem: The Simulation that Cried Wolf

Colorado Association of Meat Processors

Excellence in Meat Science & Food Safety Award

Allen Olmedo Soto 12th grade
 \$80, certificate
 Greeley West High School Greeley
From Poop To Your Table

Colorado Association of Science Teachers

CAST Award

Charlotte Granrud 7th grade
 \$100
 Frontier Academy Greeley
Which Sunscreen Provides the Most Protection from Harmful Sun Rays?

Kobi Hobert 8th grade
 \$100
 Turner Middle School Berthoud
Iron Oxide

Kyle Fridberg 11th grade
 \$100
 Fairview High School Boulder
A Novel Method of Producing Colloidal Gold Nanoparticles from Gold Ore and Aqueous Sulfuric Acid

Molly Nehring 10th grade
 \$100
 Monte Vista High School Monte Vista
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

Colorado Biology Teachers' Association

CBTA Best Biology Project Award

Elias Arredondo 6th grade
 \$50, certificate
 Monte Vista On-line Academy Monte Vista
Fish Fertilizer: The Correlation Between Fish and Foliage

Jason Cui 7th grade
 \$100, certificate
 Southern Hills Middle School Boulder
Powerful Natural Antibiotics

Kaitlyn Carson 12th grade
 \$50, certificate
 Windsor High School Windsor
The Effects of Wash Water Temperature on Egg Shell Permeability

Michelle Kummel 11th grade
 \$100, certificate
 Palmer High School Colorado Springs
Microclimatological Feedbacks at Treeline

Colorado BioScience Institute

BioGENEius Challenge

Hari Sowrirajan 11th grade
 all-expense paid trip to compete at the US National and International competition held in San Diego, CA June 2017 during the International BIO Convention
 Cherry Creek High School Greenwood Village
Optimization of Zinc Oxide Nanoparticles for Vaccine Delivery

Colorado Chemistry Teachers' Association

CCTA Chemistry Award

Charlie Clapper 7th grade
 \$100
 Stratton Schools Stratton
Viscosity

Tyson Schneider 9th grade
 \$100
 Arickaree School Anton
Wicktastic

Colorado Dental Association

CDA Excellence in Oral Health Award

Beau Tate 7th grade
 \$50
 Walsh Jr/Sr High School Walsh
They See Me Flossing!

Maya Monks 7th grade
 Annika Reeder-Holman 7th grade
 \$100
 Stanley British Primary School Denver
Effect of Teeth Brushing and Chewies on Canine Oral Bacterial Count

Brecken Dobbs 8th grade
 \$50
 La Veta Schools La Veta
Tooth Enamel: Can It Really Be Strengthened? Year Two

2017 Colorado Science and Engineering Fair Special Awards Press Release

Kaytlyn Keating¹ & Emilee Wells² 8th grade
 \$100
¹Weldon Valley School Weldona
²Fort Morgan Middle School Fort Morgan
Detox Your Mouth to Cleanse Your Health!

Colorado Division of Reclamation, Mining & Safety

Outstanding Earth Science Award

Nathaniel Brim 8th grade
 \$75
 The Classical Academy Colorado Springs
Depuration Kinetics of Activated Carbon With Ion Exchange Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous Solutions contaminated with Heavy Metals

Mitchell Fosdick 12th grade
 \$75
 Fowler High School Fowler
The Uptake of Copper Ions by Chlorella Vulgaris

Colorado Environmental Health Association

Environmental Health Award

Mikailah Feinman 7th grade
 \$75, framed certificate
 Primero Jr/Sr High School Weston
Produced Gas Well Water: Can It Be Repurposed for Agricultural Use?

Eric Bear 11th grade
 \$150, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference (valued at \$400)
 Colorado Academy Denver
Determining Water Treatment Planning Using a Classification Model Neural Network

Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Michaela Ravenkamp 7th grade
 certificate, \$50
 Genoa-Hugo School Hugo
Farmtastic

Paige Beedy 8th grade
 Trista Marx 7th grade
 certificate, \$50
 Limon Schools Limon
Organic Fertilizers

Parker Randolph 10th grade
 certificate, \$50
 Monte Vista High School Monte Vista
Examining the Effects of Martian Soil, Additives, Water Quality, and Companion Planting on Biomass a

Lacey Niccoli 10th grade
 certificate, \$50
 Arickaree School Anton
Reclaimed! The Effects of Amendments on Soil Reclamation

Colorado Geographic Alliance

COGA Application of Geography Award

Julia Warnock 7th grade
 \$100
 Poudre Global Academy Fort Collins
Habitats Most Affected by Light Pollution in Red Fox Meadows

Kate DeMarsh & Madison Bohling 12th grade
 \$100
 Monarch High School Lousiville
Cape Verde Hurricanes: How Genesis Point Impacts Landfall Latitude

Colorado Medical Society

CMS Education Foundation Award

Colleen Farrell 7th grade
 \$100, invitation to the winners and their parents to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
 Eagle County Charter Academy Edwards
Hidden Dangers of the Doctor's Office

Hari Sowrirajan 11th grade
 \$100, invitation to the winners and their parents to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
 Cherry Creek High School Greenwood Village
Optimization of Zinc Oxide Nanoparticles for Vaccine Delivery

Colorado Mineral Society

Best Earth Science Award

Paul Knight 8th grade
 \$35, mineral specimen, book, certificate
 Miller Middle School Durango
Tidy Up Those Tailings

Joshua Miller 8th grade
 \$50, mineral specimen, book, certificate
 Skinner Middle School Denver
Effect of Sand Grain Size on Supportiveness of a Structure During a Liquefaction Event

Jenna Salvat 10th grade
 \$35, mineral specimen, book, certificate
 Coronado High School Colorado Springs
Characterization of the Pyroelectric and Piezoelectric Effect Exhibited by $\hat{I}\pm$ -Crystalline SiO₂

Kyle Fridberg 11th grade
 \$50, mineral specimen, book, certificate
 Fairview High School Boulder
A Novel Method of Producing Colloidal Gold Nanoparticles from Gold Ore and Aqueous Sulfuric Acid

2017 Colorado Science and Engineering Fair Special Awards Press Release

Colorado Mycological Society

Excellence in Mycological Research Award

Paul Knight 8th grade
certificate, \$100, CMS membership for 2017
Miller Middle School Durango
Tidy Up Those Tailings

Colorado Native Plant Society

Colorado Native Plants Award for Excellence

Sofia Bader 8th grade
\$50
Miller Middle School Durango
Build the Swamp

Michelle Kummel 11th grade
\$50
Palmer High School Colorado Springs
Microclimatological Feedbacks at Treeline

Colorado Scientific Society

Excellence in Geology Award

Josef Perko 7th grade
\$50
Walt Clark Middle School Loveland
Effects of Dry Ice Sublimation on Mars Geology, Part 2

Kody Donnelson 6th grade
\$75
Fleming Middle School Fleming
Marble, Marble, Everywhere and What an Acid Rain Drop Will Do

Wyatt Wiening 11th grade
\$75
Trinidad High School Trinidad
Effect of Milankovitch Cyclicity on Prehistoric Marine Life of the Late Cretaceous Middle Cenomanian

Jenna Salvat 10th grade
\$100
Coronado High School Colorado Springs
Characterization of the Pyroelectric and Piezoelectric Effect Exhibited by $\hat{I}\pm$ -Crystalline SiO₂

Colorado State University College of Agricultural Sciences

Innovations in the Science of Agriculture Award

Elishevlyne Eliason 8th grade
\$500
Challenge School Denver
The Least of Us

Riley Russell 11th grade
Anand Chundi 9th grade
\$500
SkyView Academy Highlands Ranch
Morphological Effects of a Predator on Crayfish: Fight or Flight?

Colorado State University

Dept. of Biochemistry & Molecular Biology

Excellence in Biochemistry & Molecular Biology Award

Solomon Bloomfield 11th grade
\$100, certificate
Fairview High School Boulder
Amph-1 Knockdown Aggravates Pathogenesis of Alzheimer's Disease in Caenorhabditis Elegans

Colorado State University

Dept. of Horticulture & Landscape Architecture

Excellence in Horticulture Award

Elias Arredondo 6th grade
\$125
Monte Vista On-line Academy Monte Vista
Fish Fertilizer: The Correlation Between Fish and Foliage

Parker Stone 6th grade
\$125
Beaver Valley Elementary School Brush
Get It Ripe

Isabella Bowland 11th grade
\$125
Fairview High School Boulder
Bad Altitude: Climate Change in the Alpine May Alter Beneficial Plant-Fungal Relationships

Parker Randolph 10th grade
\$125
Monte Vista High School Monte Vista
Examining the Effects of Martian Soil, Additives, Water Quality, and Companion Planting on Biomass a

Colorado State University Energy Institute

Energy Achievement Award

Claire Victor 12th grade
\$250, certificate
Centaurus High School Lafayette
Renewable Hydrogen and Fuel Cells: The Future of Energy

Colorado Veterinary Medical Association

Veterinary Science Award

Maya Monks & Annikae Reeder-Holman 7th grade
\$100, certificate
Stanley British Primary School Denver
Effect of Teeth Brushing and Chewies on Canine Oral Bacterial Count

Peyton Leyendecker 9th grade
\$100, certificate
SkyView Academy Highlands Ranch
Manuka Honey Surgical Adhesive

2017 Colorado Science and Engineering Fair Special Awards Press Release

Colorado's Touchstone Energy Cooperatives

The Colorado EnergyWise award

Tate Schrock 7th grade
\$250

Arickaree School Anton
H2 and O2 Generator Fabrication & PEM Fuel Cell Efficiency

Michelle Ren & Julianna O'Clair 10th grade
\$250

Brush High School Brush
Energy Production of Microbial Fuel Cells

Colorado-Wyoming Society of American

Foresters

Excellence in Forestry Research Award

Kathryn Kummel 8th grade
\$200

North Middle School Colorado Springs
Gone with the Wind: The Horseshoe Vortex Behind Tree Islands on Pikes Peak & Impact on Tree Growth

Michelle Kummel 11th grade
\$200

Palmer High School Colorado Springs
Microclimatological Feedbacks at Treeline

Comstock Family

Heather Comstock Memorial Award

Seth Young 12th grade
\$200

The Classical Academy Colorado Springs
Applied Biomineralization: Increasing Magnetosome Formation in AMB-1 for Industrial Purposes Through Genetic Recombination of Genes Essential to Magnetosome Formation and Mutation Mediated by UV Radiation

Consumer Energy Education Foundation

Energy Day Academic Program Award

Kyle Fridberg 11th grade
\$100

Fairview High School Boulder
A Novel Method of Producing Colloidal Gold Nanoparticles from Gold Ore and Aqueous Sulfuric Acid

Jenna Salvat 10th grade
\$100

Coronado High School Colorado Springs
Characterization of the Pyroelectric and Piezoelectric Effect Exhibited by $\hat{I}\pm$ -Crystalline SiO2

Jay Chandra 11th grade
\$100

Fossil Ridge High School Fort Collins
Carbon Coatings on a Copper Antimonide Anode for Enhanced Performance and Lifetime in Rechargeable Metal-Ion Batteries

Aubrey Berger 11th grade
\$100

Eaglecrest High School Centennial
Mechanized Collection of Organic Spider Silk

Alyssa Rawinski 10th grade
\$100

Monte Vista High School Monte Vista
Western Snowy Plover Nest Site Characteristics and Use of Drone Imagery in Predicting Potential Nest

Molly Nehring 10th grade
\$100

Monte Vista High School Monte Vista
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

Dairy Tech, Inc.

Dairy Tech Agricultural Focus Award

Charlese Satterfield 7th grade
\$200

Canon Exploratory School Canon City
Bigger Eggs for Peanuts

Fort Collins Conservation District

Conservation District Award

Mikailah Feinman 7th grade
plaque, \$50

Primero Jr/Sr High School Weston
Produced Gas Well Water: Can It Be Repurposed for Agricultural Use?

Cassidy Plane 12th grade
plaque, \$50

Alamosa High School Alamosa
Can This Macromolecule Captivate Your Miroorganisms?

Frank Armbruster Foundation

Armbruster Memorial Award

Kadence Kunselman 7th grade
\$100

Walsh Jr/Sr High School Walsh
I've Got the Power

Geological Society of America

GSA Awards in Environmental Geology

Nathaniel Brim 8th grade
plaque, certificate, \$50 gift card, GSA memorabilia

The Classical Academy Colorado Springs
Depuration Kinetics of Activated Carbon With Ion Exchange Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous Solutions contaminated with Heavy Metals

Scott Prieve 8th grade
plaque, certificate, \$75 gift card, GSA memorabilia

North Middle School Colorado Springs
To Rip or To Rap: How Does the Design of Erosion Control on a Creek Bend Affect Bank Deterioration?

2017 Colorado Science and Engineering Fair Special Awards Press Release

Kathryn Kummel 8th grade
 plaque, certificate, \$100 gift card, GSA memorabilia
 North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
 Islands on Pikes Peak & Impact on Tree Growth*

Gromko Family

Gerald Gromko Memorial Award

Leighton Burt 12th grade
 \$150
 Sargent Jr/Sr High School Monte Vista
*Life Saving Locating: Developing Autonomous Avalanche
 Rescue Part 3*

Human Factors and Ergonomics Society Rocky Mountain Chapter

Excellence in Human Factors & Ergonomics Award
 Allison Rose 7th grade
 \$100
 The Classical Academy Colorado Springs
*Engineering Design of an Improved Grasper for Eating
 Cheesy-Sticky Snacks*

Institute of Electrical & Electronics Engineers High Plains Section IEEE Award

Sara Nehring 8th grade
 \$100 cash card
 Monte Vista Middle School Monte Vista
*Over the Hill and Through the Codes to Encryption and
 Decryption We Go!*

Weston Metzler 11th grade
 \$150 cash card
 Peak to Peak Charter School Lafayette
Compiling to Higher Levels of Abstraction on Calculators

Koppa Research, LLC

Koppa Research's Einstein Award for Achievements in Physics

Matthew Anderson 7th grade
 \$250
 Challenge School Denver
*How the Percentage of Alpha Particles Shielded Changes with
 Different Types of Shielding*

Little Shop of Physics

Matthew McCausland Memorial Award

Henry Foisie 7th grade
 science equipment/instruments
 The Classical Academy Colorado Springs
Easy Peazy Piezo Power

Alyssa Lee 8th grade
 science equipment/instruments
 Summit Charter Middle School Boulder
The Physics of Flying: G-Forces in Aerial Dance

Alden Kruse 8th grade
 science equipment/instruments
 Home School Colorado Springs
Into Thin Air: A Search for Microbes in the Stratosphere

Paul Brophy 10th grade
 science equipment/instruments
 Yuma High School Yuma
Non-Newtonian Fluids in Baseball

Lockheed Martin

Lockheed Martin Aerospace Award

Eric Bauman 8th grade
 \$50
 The Classical Academy Colorado Springs
In the Absence of Air

Christoph Cikraji 12th grade
 \$100
 Durango High School Durango
Artificial Gravity Concept for Sustainable Space

National Centers for Environmental Information NCEI Award for Scientific Achievement

Nathaniel Brim 8th grade
 certificate, monetary award from an anonymous donor
 The Classical Academy Colorado Springs
*Depuration Kinetics of Activated Carbon With Ion Exchange
 Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous
 Solutions contaminated with Heavy Metals*

National Defense Industrial Association NDIA STEM Excellence Award

Nico Martinez 6th grade
 \$100
 Pueblo Academy of Arts Pueblo
*Does a Robotic Hand Have the Ability to Grasp and Move
 Objects in a Timely Manner?*

Matthew Anderson 7th grade
 \$100
 Challenge School Denver
*How the Percentage of Alpha Particles Shielded Changes with
 Different Types of Shielding*

Alden Kruse 8th grade
 \$100
 Home School Colorado Springs
Into Thin Air: A Search for Microbes in the Stratosphere

Hailey Melvin 6th grade
 \$200
 Dolores Middle School Dolores
Can You Make an Alternate Fuel Out of Food?

Gabe Wu 7th grade
 \$200
 The Classical Academy Colorado Springs
Improving the LED Solar Panel Light Circuit

2017 Colorado Science and Engineering Fair Special Awards Press Release

Cooper Hanley 8th grade
\$200
Louisville Middle School Louisville
Can You Generate Electricity By Moving?

National Renewable Energy Laboratory

NREL Energy Award

Brendan Gould 9th grade
\$100
The Classical Academy Colorado Springs
Going Bananas: Using Banana Peels in Polymerization
Reactions to Produce Thermoplastics

Rocky Mountain Association of Geologists

Excellence in Earth Science Award

Sam Haggans 8th grade
\$125
Summit Charter Middle School Boulder
Does Position Matter? Testing Different Layouts of Erosion
Barriers in a Stream Bed

Leo Foster Greer 12th grade
\$125
Boulder High School Boulder
Harvest Project: Correcting Sea State Bias

Alex Tseng 7th grade
\$250
Stanley British Primary School Denver
Which Waste Shouldn't Be Wasted?

Eric Bear 11th grade
\$250
Colorado Academy Denver
Determining Water Treatment Planning Using a Classification
Model Neural Network

Rocky Mountain Water Environment Association

Water Research Award

Sofia Bader 8th grade
\$200
Miller Middle School Durango
Build the Swamp

Nathaniel Brim 8th grade
\$400
The Classical Academy Colorado Springs
Depuration Kinetics of Activated Carbon with Ion Exchange
Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous
Solutions contaminated with Heavy Metals

Max Warnock 9th grade
\$200
Poudre Global Academy Fort Collins
The Impact of Odor Control Clothing on Water Boatmen
(Corixidae)

McKinley Dirks & Alexandra Rivera 11th grade
\$400
SkyView Academy Highlands Ranch
Methods to Reduce Micropollutants in Treated Water

SACNAS, Colorado State University Chapter

SACNAS CSU Rising Young Scientist Award

Anila Narayana 10th grade
\$50
Rock Canyon High School Highlands Ranch
Exploring the Genome: A Search for the Eczema Gene

Elishevlyne Eliason 8th grade
\$50
Challenge School Denver
The Least of Us

Adrian Pizano 8th grade
\$50
Rocky Ford Jr/Sr High School Rocky Ford
Testing the Waters

Science Toy Magic, LLC

Physics Classroom Demonstration Award

Ethan Cerniglia 8th grade
\$50
The Classical Academy Colorado Springs
Lift Off

Marissa Jordan 8th grade
\$100
Home School Ignacio
A Softer Side of Robots: Using Grippers Made From Soft
Materials

Xander Duvall 6th grade
\$50
Thomas MacLaren School Colorado Springs
Magnetic Effects on Subatomic Particles

Chase Cromwell 9th grade
\$100
Lamar High School Lamar
Stampede Arm

Society for Mining, Metallurgy and Exploration Colorado Section

Excellence in Mineral Science & Engineering Award
Nathaniel Brim 8th grade
plaque, \$100
The Classical Academy Colorado Springs
Depuration Kinetics of Activated Carbon With Ion Exchange
Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous
Solutions contaminated with Heavy Metals

2017 Colorado Science and Engineering Fair Special Awards Press Release

Scott Prieve
plaque, \$200
North Middle School
To Rip or To Rap: How Does the Design of Erosion Control on a Creek Bend Affect Bank Deterioration?

8th grade
Colorado Springs

Aubrey Berger
certificate, \$75
Eaglecrest High School
Mechanized Collection of Organic Spider Silk

11th grade
Centennial

Mitchell Fosdick
plaque, \$150
Fowler High School
The Uptake of Copper Ions by Chlorella Vulgaris

12th grade

Ashley Aguilar
certificate, \$100
New Vista High School
Converting Mechanical Vibrations into Electrical Energy Via Dielectric Elastomer Generators (DEGs)

12th grade
Boulder

Lacey Niccoli
plaque, \$150
Arickaree School
Reclaimed! The Effects of Amendments on Soil Reclamation

10th grade

Anton

**Soil & Water Conservation Society
Colorado Chapter**
Natural Resource Conservation Award

Serenity Foutz
\$100, certificate
Bayfield Middle School
Gone with the Water

6th grade
Bayfield

Kyle Fridberg
plaque, \$400
Fairview High School
A Novel Method of Producing Colloidal Gold Nanoparticles from Gold Ore and Aqueous Sulfuric Acid

11th grade

Boulder

Shannon Bland
\$100, certificate
Lamar High School
Stop That Flood (Part VI)

12th grade
Lamar

Society of Manufacturing Engineers Colorado Chapter 354

Andy Keller Memorial Award

Chase Cromwell
\$100, recognition by the local chapter
Lamar High School
Stampede Arm

9th grade

Lamar

Henry Foisie
\$150, recognition by local chapter
The Classical Academy
Easy Peazy Piezo Power

7th grade

Colorado Springs

Marissa Jordan
\$200, recognition by local chapter
Home School
A Softer Side of Robots: Using Grippers Made From Soft Materials

8th grade

Ignacio

Society of Women Engineers Rocky Mountain Section *SWE Award*

Allison Rose
certificate, \$75
The Classical Academy
Engineering Design of an Improved Grasper for Eating Cheesy-Sticky Snacks

7th grade

Colorado Springs

Marissa Jordan
certificate, \$100
Home School
A Softer Side of Robots: Using Grippers Made From Soft Materials

8th grade

Ignacio

SPIE, the international society for optics and photonics

SPIE Optics and Photonics Special Award

Kylie Walters
\$50
The Classical Academy
The Blind Side

7th grade

Colorado Springs

Anna Dery
\$100
Holy Family Catholic School
Distance to the Stars

7th grade

Grand Junction

Julia Warnock
\$150
Poudre Global Academy
Habitats Most Affected by Light Pollution in Red Fox Meadows

7th grade

Fort Collins

Karry Pileggi
\$100
SkyView Academy
The Effects of Auxin with External Factors on Root Growth

10th grade

Highlands Ranch

Nathaniel Miner & Drake Ludgate
\$150
Brush High School
Black Carbon Detection: A Regional Snow Survey

10th grade

Brush

Molly Nehring
\$250
Monte Vista High School
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

10th grade

Monte Vista

2017 Colorado Science and Engineering Fair Special Awards Press Release

The Inventors' Roundtable *Inventors' Roundtable Award*

Leighton Burt 12th grade
\$100 cash, free patent search (valued at \$499.00)
Sargent Jr/Sr High School Monte Vista
*Life Saving Locating: Developing Autonomous Avalanche
Rescue Part 3*

Trout Unlimited

Trout Unlimited River Conservation Award

Paul Knight 8th grade
\$75
Miller Middle School Durango
Tidy Up Those Tailings

Manuel Lucero 6th grade
\$125
Centauri Middle School La Jara
*Those "Banking" Beavers: A Trickle-Down Approach to
Conservation*

Scott Prieve 8th grade
\$200
North Middle School Colorado Springs
*To Rip or To Rap: How Does the Design of Erosion Control on
a Creek Bend Affect Bank Deterioration?*

United States Air Force *Air Force ROTC Award*

Leighton Burt 12th grade
certificate, over-the-shoulder sling pack, power bank charger,
dog tag USB flash memory drive, dual USB car charger
Sargent Jr/Sr High School Monte Vista
*Life Saving Locating: Developing Autonomous Avalanche
Rescue Part 3*

Kylie Walters 7th grade
certificate, over-the-shoulder sling pack, power bank charger,
dog tag USB flash memory drive, dual USB car charger
The Classical Academy Colorado Springs
The Blind Side

United States Department of Commerce

Award for Excellence in Science and Engineering

Ashley Aguilar 12th grade
alternate for an opportunity for summer employment with the
Department of Commerce (possibility for future continued
employment)
New Vista High School Boulder
*Converting Mechanical Vibrations into Electrical Energy Via
Dielectric Elastomer Generators (DEGs)*

Leighton Burt 12th grade
an opportunity for summer employment with the Department of
Commerce (possibility for future continued employment)
Sargent Jr/Sr High School Monte Vista
*Life Saving Locating: Developing Autonomous Avalanche
Rescue Part 3*

United States Navy & Marine Corps *Office of Naval Research Award*

Hailey Melvin 6th grade
letter of congratulations, certificate, medallion
Dolores Middle School Dolores
Can You Make an Alternate Fuel Out of Food?

Jason Cui 7th grade
letter of congratulates, certificate, medallion
Southern Hills Middle School Boulder
Powerful Natural Antibiotics

Julia Warnock 7th grade
letter of congratulates, certificate, medallion
Poudre Global Academy Fort Collins
Habitats Most Affected by Light Pollution in Red Fox Meadows

Eric Bauman 8th grade
letter of congratulates, certificate, medallion
The Classical Academy Colorado Springs
In the Absence of Air

Ellie Clark 7th grade
letter of congratulates, certificate, medallion
St. Columba Catholic School Durango
Fabric Nanofinishing: Adventures in Textile Engineering

Weston Metzler 11th grade
letter of congratulates, certificate, medallion, \$75 gift card (to
be mailed)
Peak to Peak Charter School Lafayette
Compiling to Higher Levels of Abstraction on Calculators

Max Markuson DiPrince 11th grade
letter of congratulates, certificate, medallion, \$75 gift card (to
be mailed)
Central High School Pueblo
*Windmill Efficiency Part 2: Replicating & 3D Printing Natural
Leaf Designs on a Vertical-axis Turbine*

Sai Kaushik Yeturu 12th grade
letter of congratulates, certificate, medallion, \$75 gift card (to
be mailed)
Peak to Peak Charter School Lafayette
*A Bio-inspired Saddle Mechanism for Mechanical Energy
Storage*

University of Colorado, Denver

Medical Scientist Training Program Award

Nathan Panzer 8th grade
\$50
North Arvada Middle School Arvada
The Effects of Foreign Substances on Blood Coagulation Times

Solomon Bloomfield 11th grade
\$50
Fairview High School Boulder
*Amph-I Knockdown Aggravates Pathogenesis of Alzheimer's
Disease in Caenorhabditis Elegans*

2017 Colorado Science and Engineering Fair Special Awards Press Release

Vaughan Web Works

Glissmann Family Award for Best Use of Software Programming

Sara Nehring 8th grade
\$50
Monte Vista Middle School Monte Vista
Over the Hill and Through the Codes to Encryption and Decryption We Go!

Eric Bear 11th grade
\$100
Colorado Academy Denver
Determining Water Treatment Planning Using a Classification Model Neural Network

Wilkins Family

Young Entrepreneur's Award

Leighton Burt 12th grade
\$500
Sargent Jr/Sr High School Monte Vista
Life Saving Locating: Developing Autonomous Avalanche Rescue Part 3

Wojtaszek Family

Paul Wojtaszek Memorial Award

Katherine Larson 11th grade
\$200
Home School Colorado Springs
Electrical Impedance Tomography as a Tool for Detecting Tumors

Women in Physics, Colorado State University

Promising Young Woman in Science Award

Molly Nehring 10th grade
certificate, science gift bag
Monte Vista High School Monte Vista
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

Zonta Club of Boulder County

Amelia Earhart Award

Anna Dery 7th grade
\$100, certificate
Holy Family Catholic School Grand Junction
Distance to the Stars

Scholarships

Adams State University

Adams State University Scholarships

Natalya Komleva 12th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Northridge High School Greeley
Brain Food: The Effects of Nutritional Changes In Memory Enhancement and Neurotransmitter Functional

Sarah Davidson 11th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Nederland Middle-Senior High Nederland
Differences in Functions of Proprioceptive Feedback Mechanisms: In Shod and Barefoot Conditions

Aaliyah Garcia 10th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Center High School Center
Wildland Firefighter Defense System: Phase Two

Jenna Salvat 10th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Coronado High School Colorado Springs
Characterization of the Pyroelectric and Piezoelectric Effect Exhibited by $\bar{1}\pm$ -Crystalline SiO₂

Max Markuson DiPrince 11th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Central High School Pueblo
Windmill Efficiency Part 2: Replicating & 3D Printing Natural Leaf Designs on a Vertical-axis Turbine

Chase Cromwell 9th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Lamar High School Lamar
Stampede Arm

Alyssa Rawinski 10th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Monte Vista High School Monte Vista
Western Snowy Plover Nest Site Characteristics and Use of Drone Imagery in Predicting Potential Nest

Caroline Jennings 10th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
The Classical Academy Colorado Springs
Population Dynamics of Predation in a Competitive Lupine-Ovine-Grassland Ecosystem: The Simulation that Cried Wolf

Katherine Larson 11th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Home School Colorado Springs
Electrical Impedance Tomography as a Tool for Detecting Tumors

Cassidy Plane 12th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Alamosa High School Alamosa
Can This Macromolecule Captivate Your Miroorganisms?

2017 Colorado Science and Engineering Fair Special Awards Press Release

Michael Duran 10th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Primero Jr/Sr High School Weston
How Strong Is Water?

Parker Randolph 10th grade
scholarship to ASU valued as the equivalent to one-year
resident tuition and fees (~\$9,000)
Monte Vista High School Monte Vista
*Examining the Effects of Martian Soil, Additives, Water
Quality, and Companion Planting on Biomass a*

Maya Duran¹ & Sayer Guerrero² 11th grade
scholarship to ASU valued as the equivalent to one-year
resident
tuition and fees (~\$9,000)
¹Dolores Huerta Preparatory High School Pueblo
²South High School Pueblo
Strike a Pose

Colorado College, Summer Session Office Colorado College Summer Session Merit Scholarship

Eric Bear 11th grade
\$500 merit scholarship to attend Colorado College in Summer
2017 as a pre-college student
Colorado Academy Denver
*Determining Water Treatment Planning Using a Classification
Model Neural Network*

Colorado School of Mines

Colorado School of Mines Scholarship

Kyle Fridberg 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
Fairview High School Boulder
*A Novel Method of Producing Colloidal Gold Nanoparticles
from Gold Ore and Aqueous Sulfuric Acid*

Max Markuson DiPrince 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
Central High School Pueblo
*Windmill Efficiency Part 2: Replicating & 3D Printing Natural
Leaf Designs on a Vertical-axis Turbine*

Jay Chandra 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
Fossil Ridge High School Fort Collins
*Carbon Coatings on a Copper Antimonide Anode for Enhanced
Performance and Lifetime in Rechargeable Metal-Ion Batteries*

Aubrey Berger 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
Eaglecrest High School Centennial
Mechanized Collection of Organic Spider Silk

Eric Bear 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
Colorado Academy Denver
*Determining Water Treatment Planning Using a Classification
Model Neural Network*

McKinley Dirks & Alexandra Rivera 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
SkyView Academy Highlands Ranch
Methods to Reduce Micropollutants in Treated Water

Stephanie Zhang 11th grade
\$1,000 renewable scholarship for use towards an undergraduate
degree
Fairview High School Boulder
*Gene Expression and Diseases Phase II: Developing a Model
to Predict Cancer Progression*

Colorado State University Colorado State University, Fort Collins Scholarships

Felix Channiago 10th grade
\$1,000 scholarships to attend CSU, renewable for up to 3
additional semesters
Conifer High School Conifer
*The Effect of Airborne Vibration on Sensory Hairs
(Trichobothria) of Phidippus Jumping Spiders*

Scott Litwiler 11th grade
\$1,000 scholarships to attend CSU, renewable for up to 3
additional semesters
Fairview High School Boulder
*Teenagers Texting While Driving: Computerized Eye Tracking
as a Method to Assess Visual Distraction During Driving
Simulations*

Jenna Salvat 10th grade
\$1,000 scholarships to attend CSU, renewable for up to 3
additional semesters
Coronado High School Colorado Springs
*Characterization of the Pyroelectric and Piezoelectric Effect
Exhibited by $\hat{\pm}$ -Crystalline SiO₂*

Jay Chandra 11th grade
\$1,000 scholarships to attend CSU, renewable for up to 3
additional semesters
Fossil Ridge High School Fort Collins
*Carbon Coatings on a Copper Antimonide Anode for Enhanced
Performance and Lifetime in Rechargeable Metal-Ion Batteries*

Aubrey Berger 11th grade
\$1,000 scholarships to attend CSU, renewable for up to 3
additional semesters
Eaglecrest High School Centennial
Mechanized Collection of Organic Spider Silk

2017 Colorado Science and Engineering Fair Special Awards Press Release

Alyssa Rawinski 10th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 additional semesters
Monte Vista High School Monte Vista
Western Snowy Plover Nest Site Characteristics and Use of Drone Imagery in Predicting Potential Nest

Seth Young 12th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 additional semesters
The Classical Academy Colorado Springs
Applied Biomineralization: Increasing Magnetosome Formation in AMB-1 for Industrial Purposes Through Genetic Recombination of Genes Essential to Magnetosome Formation and Mutation Mediated by UV Radiation

Molly Nehring 10th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 additional semesters
Monte Vista High School Monte Vista
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

Colorado State University, Fort Collins College of Natural Sciences Colorado State University, College of Natural Sciences Scholarships

Isani Singh 11th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 years
Cherry Creek High School Englewood
Worse Outcomes in Turner Syndrome Women Compared to Women Without Turner Syndrome

Elliot Gorokhovskiy 12th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 years
Fairview High School Boulder
Adding Data-Aware Sort Optimizations to C-Python

Molly Nehring 10th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 years
Monte Vista High School Monte Vista
Dancing with the Stars: Simulating Multi-Star Solar Systems & the Probability of Planetary Ejection

Seth Young 12th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 years
The Classical Academy Colorado Springs
Applied Biomineralization: Increasing Magnetosome Formation in AMB-1 for Industrial Purposes Through Genetic Recombination of Genes Essential to Magnetosome Formation and Mutation Mediated by UV Radiation

Aubrey Berger 11th grade
\$1,000 scholarships to attend CSU, renewable for up to 3 years
Eaglecrest High School Centennial
Mechanized Collection of Organic Spider Silk

Colorado State University, Pueblo

Colorado State University, Pueblo Scholarship

Isaac Jordan 11th grade
\$1,000 scholarship to Colorado State University, Pueblo
Animas High School Durango
A Novel Approach for Sensing Seismic Events: Applications of Graphene Nano-flake Powder Composites

Intel

Ryan Patterson Scholarship

Seth Young 12th grade
\$2,000 nonrenewable scholarship to college of student's choice
The Classical Academy Colorado Springs
Applied Biomineralization: Increasing Magnetosome Formation in AMB-1 for Industrial Purposes Through Genetic Recombination of Genes Essential to Magnetosome Formation and Mutation Mediated by UV Radiation

University of Colorado, Boulder

College of Engineering & Applied Science Scholarship

Santiago Castillo 8th grade
\$500 renewable, conditional scholarship to CU Boulder
Challenge School Denver
Reducing Seismic Accelerations in Buildings by Adding Reinforcements

Amy Nguyen 9th grade
Katherine Tran 9th grade
\$500 renewable, conditional scholarship to CU Boulder
DSST: College View High School Denver
Let It Flow: Developments of a New Two-Leaflet Bovine Tissue Mitral Valve Replacement

Caroline Jennings 10th grade
\$500 renewable, conditional scholarship to CU Boulder
The Classical Academy Colorado Springs
Population Dynamics of Predation in a Competitive Lupine-Ovine-Grassland Ecosystem: The Simulation that Cried Wolf

Casey Shaw 11th grade
\$1000 renewable scholarship to CU Boulder
Liberty School Joes
Make Way for Duckweed: Observing the Growth Rates of Lemna and its Effect on Atmospheric Carbon Dioxide Concentrations in a Simulated Carbon Sink

Isabella Bowland 11th grade
\$1000 renewable scholarship to CU Boulder
Fairview High School Boulder
Bad Altitude: Climate Change in the Alpine May Alter Beneficial Plant-Fungal Relationships

Katherine Larson 11th grade
\$1000 renewable scholarship to CU Boulder
Home School Colorado Springs
Electrical Impedance Tomography as a Tool for Detecting Tumors

2017 Colorado Science and Engineering Fair Special Awards Press Release

Anurag Golla 12th grade
\$1000 renewable scholarship to CU Boulder
Fairview High School Boulder
Motility Optimization of the PNIPAm Based Drug Delivery System

Stephanie Zhang 11th grade
\$1000 renewable scholarship to CU Boulder
Fairview High School Boulder
Gene Expression and Diseases Phase II: Developing a Model to Predict Cancer Progression

Daniel Orbidan & Ethan Simpson 10th grade
certificate, nomination to enter the Rob & Melani Walton
Sustainability Solutions Initiative Grand Prize (a trip to
Arizona for the 2018 Sustainability Solutions Festival)
SkyView Academy Highlands Ranch
*The Impact of Rutile Phase Titania Nanowire Length on
Periphyton Colonization and Voltage Output*

Association for Women Geoscientists

Outstanding Achievement in Geosciences Award

Kathryn Kummel 8th grade
certificate
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Leo Foster Greer 12th grade
certificate
Boulder High School Boulder
Harvest Project: Correcting Sea State Bias

Broadcom

Broadcom MASTERS Nomination

Alexandra Dalton 8th grade
nomination to enter the 2017 Broadcom MASTERS
competition for middle school students
Peak to Peak Charter School Lafayette
Lobelia vs. Daphnia

Ellie Schueler 8th grade
nomination to enter the 2017 Broadcom MASTERS
competition for middle school students
North Middle School Colorado Springs
*Violence in the Media: An Analysis of the Effects of Media
Violence on Mental and Physical Health*

Grace Valentine 7th grade
nomination to enter the 2017 Broadcom MASTERS
competition for middle school students
Most Precious Blood Catholic Denver
*The Effect of Cocoa Content, Cooling Time and Heating
Temperature on the Tempering of Chocolate*

Kathryn Kummel 8th grade
nomination to enter the 2017 Broadcom MASTERS
competition for middle school students
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Henry Foisie 7th grade
nomination to enter the 2017 Broadcom MASTERS
competition for middle school students
The Classical Academy Colorado Springs
Easy Peazy Piezo Power

SSP

American Psychological Association

Outstanding Achievement in Psychological Sciences Award

Sophia Murray 8th grade
certificate
Summit Charter Middle School Boulder
Mind the Gap: Growth Mindset and Gender

Cassandra Blew 10th grade
certificate
La Veta Schools La Veta
*Investigating Triggers of Sundowners Syndrome in Dementia
Patients in an Institutional Setting: Year Two*

Arizona State University

Rob & Melani Walton Sustainability Solutions Initiative Award

Eric Bear 11th grade
certificate, nomination to enter the Rob & Melani Walton
Sustainability Solutions Initiative Grand Prize (a trip to
Arizona for the 2018 Sustainability Solutions Festival)
Colorado Academy Denver
*Determining Water Treatment Planning Using a
Classification Model Neural Network*

Max Markuson DiPrince 11th grade
certificate, nomination to enter the Rob & Melani Walton
Sustainability Solutions Initiative Grand Prize (a trip to
Arizona for the 2018 Sustainability Solutions Festival)
Central High School Pueblo
*Windmill Efficiency Part 2: Replicating & 3D Printing Natural
Leaf Designs on a Vertical-axis Turbine*

Claire Victor 12th grade
certificate, nomination to enter the Rob & Melani Walton
Sustainability Solutions Initiative Grand Prize (a trip to
Arizona for the 2018 Sustainability Solutions Festival)
Centaurus High School Lafayette
Renewable Hydrogen and Fuel Cells: The Future of Energy

2017 Colorado Science and Engineering Fair Special Awards Press Release

Marissa Jordan nomination to enter the 2017 Broadcom MASTERS competition for middle school students Home School	8th grade	Kaydee Dodge nomination to enter the 2017 Broadcom MASTERS competition for middle school students Craver Middle School	8th grade Colorado City
<i>A Softer Side of Robots: Using Grippers Made From Soft Materials</i>	Ignacio	<i>Pumpkin Preservation Part 3: Evaluating Hazards of Petroleum Jelly as a Jack'o Lantern Preservative</i>	
Scott Prieve nomination to enter the 2017 Broadcom MASTERS competition for middle school students North Middle School	8th grade	Joshua Miller nomination to enter the 2017 Broadcom MASTERS competition for middle school students Skinner Middle School	8th grade Denver
<i>To Rip or To Rap: How Does the Design of Erosion Control on a Creek Bend Affect Bank Deterioration?</i>	Colorado Springs	<i>Effect of Sand Grain Size on Supportiveness of a Structure During a Liquefaction Event</i>	
Sara Nehring nomination to enter the 2017 Broadcom MASTERS competition for middle school students Monte Vista Middle School	8th grade	Alex Tseng nomination to enter the 2017 Broadcom MASTERS competition for middle school students Stanley British Primary School	7th grade Denver
<i>Over the Hill and Through the Codes to Encryption and Decryption We Go!</i>	Monte Vista	<i>Which Waste Shouldn't Be Wasted?</i>	
Jason Cui nomination to enter the 2017 Broadcom MASTERS competition for middle school students Southern Hills Middle School	7th grade	Ellie Clark nomination to enter the 2017 Broadcom MASTERS competition for middle school students St. Columba Catholic School	7th grade Durango
<i>Powerful Natural Antibiotics</i>	Boulder	<i>Fabric Nanofinishing: Adventures in Textile Engineering</i>	
Anjali Chaparala nomination to enter the 2017 Broadcom MASTERS competition for middle school students The Classical Academy	8th grade	Nathaniel Brim nomination to enter the 2017 Broadcom MASTERS competition for middle school students The Classical Academy	8th grade Colorado Springs
<i>Gut Less Sugar</i>	Colorado Springs	<i>Depuration Kinetics of Activated Carbon With Ion Exchange Resins, Poly Filter Pad, and Freshwater Bivalves in Aqueous Solutions contaminated with Heavy Metals</i>	
Corey Schanker nomination to enter the 2017 Broadcom MASTERS competition for middle school students Turner Middle School	8th grade	Charles Rothbaum nomination to enter the 2017 Broadcom MASTERS competition for middle school students Corwin International Magnet School	8th grade Pueblo
<i>Kinetic Energy</i>	Berthoud	<i>Learning Robots</i>	
Anuradha Prakash nomination to enter the 2017 Broadcom MASTERS competition for middle school students Summit Charter Middle School	8th grade	Lauren Linnebur Malayne Perry nomination to enter the 2017 Broadcom MASTERS competition for middle school students Liberty Middle School	7th grade 7th grade Aurora
<i>Pee Is for Plants</i>	Boulder	<i>Student Health Literacy and Snack Consumption in Elementary and Middle Schools</i>	
Elishevlyne Eliason nomination to enter the 2017 Broadcom MASTERS competition for middle school students Challenge School	8th grade	Anika Fergusson nomination to enter the 2017 Broadcom MASTERS competition for middle school students Summit Charter Middle School	8th grade Boulder
<i>The Least of Us</i>	Denver	<i>pH and Probiotics: Is Traditional Yogurt Better?</i>	
Blakeley Bennett nomination to enter the 2017 Broadcom MASTERS competition for middle school students North Middle School	8th grade	Olivia Greene nomination to enter the 2017 Broadcom MASTERS competition for middle school students The Classical Academy	7th grade Colorado Springs
<i>Got Color Cognition?</i>	Colorado Springs	<i>The Need for Speed</i>	

2017 Colorado Science and Engineering Fair Special Awards Press Release

Elias Arredondo 6th grade
nomination to enter the 2017 Broadcom MASTERS
competition for middle school students
Monte Vista On-line Academy Monte Vista
Fish Fertilizer: The Correlation Between Fish and Foliage

Intel Corporation

Intel Excellence in Computer Science Award

Elliot Gorokhovskiy 12th grade
\$200 (to be mailed), certificate
Fairview High School Boulder
Adding Data-Aware Sort Optimizations to C-Python

Weston Metzler 11th grade
\$200 (to be mailed), certificate
Peak to Peak Charter School Lafayette
Compiling to Higher Levels of Abstraction on Calculators

Mu Alpha Theta

Outstanding Achievement in Mathematics

Elia Gorokhovskiy 10th grade
certificate
Fairview High School Boulder
*A Method for the Reduction of Time Error in the Ensemble
Adjustment Kalman Filter*

Colin Burdine 12th grade
certificate
Cherry Creek High School Greenwood Village
*Determining the Complexity of Boolean Formulae Modeling
NP Decision Problems*

NASA

NASA Earth System Science Award

Kathryn Kummel 8th grade
certificate
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Leo Foster Greer 12th grade
certificate
Boulder High School Boulder
Harvest Project: Correcting Sea State Bias

National Oceanic and Atmospheric Administration

Taking the Pulse of the Planet Award

Kathryn Kummel 8th grade
certificate, medal
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Josephina Hoskins-Marcantonio 11th grade
certificate, medal
Fairview High School Boulder
When Even the Early Bird Is Late

Ricoh

Ricoh Sustainability Development Award

Nicholas Huber 7th grade
certificate
St. Columba Catholic School Durango
Solar Still Design Efficiency

Brendan Gould 9th grade
certificate
The Classical Academy Colorado Springs
*Going Bananas: Using Banana Peels in Polymerization
Reactions to Produce Thermoplastics*

Society for In Vitro Biology

Outstanding Achievement in In Vitro Biology Award

Katherine Larson 11th grade
certificate
Home School Colorado Springs
*Electrical Impedance Tomography as a Tool for Detecting
Tumors*

Hari Sowrirajan 11th grade
certificate
Cherry Creek High School Greenwood Village
Optimization of Zinc Oxide Nanoparticles for Vaccine Delivery

United States Metric Association

Outstanding Achievement in the Use of the International System Award

Kathryn Kummel 8th grade
certificate
North Middle School Colorado Springs
*Gone with the Wind: The Horseshoe Vortex Behind Tree
Islands on Pikes Peak & Impact on Tree Growth*

Michelle Kummel 11th grade
certificate
Palmer High School Colorado Springs
Microclimatological Feedbacks at Treeline

Water Environment Federation

Stockholm Junior Water Prize

Michelle Ren 10th grade
Julianna O'Clair 10th grade
certificate, nomination to enter the SJWP state competition
Brush High School Brush
Energy Production of Microbial Fuel Cells

McKinley Dirks 11th grade
Alexandrea Rivera 11th grade
certificate, nomination to enter the SJWP state competition
SkyView Academy Highlands Ranch
Methods to Reduce Micropollutants in Treated Water

Max Warnock 9th grade
certificate, nomination to enter the SJWP state competition
Poudre Global Academy Fort Collins
*The Impact of Odor Control Clothing on Water Boatmen
(Corixidae)*

2017 Colorado Science and Engineering Fair Special Awards Press Release

Eric Bear 11th grade
certificate, nomination to enter the SJWP state competition
Colorado Academy Denver
Determining Water Treatment Planning Using a

Classification Model Neural Network
Michael Savala 10th grade
certificate, nomination to enter the SJWP state competition
Monte Vista High School Monte Vista
*Ferro-Solution? Can Iron Nanoparticles Help with Oil Spill
Clean-up?*

Yale Science & Engineering Association *Outstanding Achievement in Science & Engineering Award*

Aubrey Berger 11th grade
certificate
Eaglecrest High School Centennial
Mechanized Collection of Organic Spider Silk

Kyle Fridberg 11th grade
certificate
Fairview High School Boulder
*A Novel Method of Producing Colloidal Gold Nanoparticles
from Gold Ore and Aqueous Sulfuric Acid*

Teacher

Lockheed Martin

CSEF Teacher of the Year Award

Lorry Getz
\$3,000, plaque
Liberty Middle School Aurora

SparkFun Electronics

SparkFun's Thank You to Educators Award

Lorry Getz
certificate, SparkFun Inventor's kit (valued at \$99)
Liberty Middle School Aurora

Amy Melby
certificate, SparkFun Inventor's kit (valued at \$99)
Yuma High School Yuma

Terri Paulson
certificate, SparkFun Inventor's kit (valued at \$99)
Sargent Jr/Sr High School Monte Vista

Nicole Schnee
certificate, SparkFun Inventor's kit (valued at \$99)
St. Columba Catholic School Durango

John Wiley
certificate, SparkFun Inventor's kit (valued at \$99)
Challenge School Denver