



Colorado Science and Engineering Fair

Contact Information:

Courtney Butler
CSEF Director
csef@colostate.edu
(970) 491 - 7716

2016 Colorado Science and Engineering Fair Award Winners

Fort Collins, CO (April 8, 2016) – This year’s Colorado Science and Engineering Fair (CSEF) was held April 7 – 9, 2016. 332 projects were on display from students in grades 6 through 12, at the Lory Student Center on the Colorado State University – Fort Collins campus.

This year’s Grand and Special Awards winners were monumental; in fact, over 450 individual awards were presented at the awards ceremony. Attached is the list of winners.

Four Senior Division CSEF Finalists will be traveling to Phoenix, AZ to compete in the Intel International Science and Engineering Fair in May. They are:

1st Place: Isani Singh from Cherry Creek High School for the project *Studying the Effects of a Missing X Chromosome on the Liver*.

2nd Place: Joyce Xu from Fairview High School for the project *Predictive Modeling of Optimal Cancer Therapies*.

3rd Place: Rebecca Bloomfield from Palmer High School for the project *GASP! Growth Advantage in Stationary Phase in *Acinetobacter baylyi**.

4th Place: Trevor Jordan from Animas High School for the project *A Wing of the Future, Part III*.

The CSEF also presented the Lockheed Martin Teacher of the Year Award to Linda Niccoli from Liberty School in Joes, CO.

Special thanks goes to all of the contributors and sponsors of the 2016 CSEF for their financial and in-kind support of Colorado’s future scientists. This year’s top sponsors (\$2,500 or more) included Bayswater Exploration & Production, Colorado State University, Intel Foundation, Northrup Grumman, Black & Veatch, Lockheed Martin, US Department of Commerce/NOAA, Colorado Dental Association, ICAT Managers, & Seagate Technology.

For a complete list of all of the 2016 CSEF participants, sponsors, Colorado's Intel ISEF delegates and other CSEF details, please visit the CSEF website at www.csef.colostate.edu.

The Colorado Science and Engineering Fair (CSEF) is an independent, nonprofit corporation. Thanks to the support of generous corporations, foundations, government agencies, and donors who believe in the importance of science education, the CSEF has served Colorado and its students for 61 years.

2016 Colorado Science and Engineering Fair

Grand Awards Press Release

Junior Division Best CSEF Project

First Place		
Anudeep Golla	8th grade	
<i>Seeking Predictability Trapped in the Midst of the Chaos of the Mandelbrot Set</i>		
Southern Hills Middle School	Boulder	
Second Place		
Alyssa Keirn	8th grade	
<i>Solar Powered Decontaminator Testing</i>		
Blevins Middle School	Fort Collins	
Third Place		
Jonathan Haerr	8th grade	
<i>Circumstantial Morality</i>		
The Classical Academy	Colorado Springs	

Senior Division Best CSEF Project

First Place		
Isani Singh	10th grade	
<i>Studying the Effects of a Missing X Chromosome on the Liver</i>		
Cherry Creek High School	Greenwood Village	
Second Place		
Joyce Xu	11th grade	
<i>Predictive Modeling of Optimal Cancer Therapies</i>		
Fairview High School	Boulder	
Third Place		
Rebecca Bloomfield	11th grade	
<i>GASP!: Growth Advantage in Stationary Phase in <i>Acinetobacter baylyi</i></i>		
Palmer High School	Colorado Springs	
Fourth Place		
Trevor Jordan	12th grade	
<i>A Wing of the Future: Part III</i>		
Animas High School	Durango	

Junior Division Animal Sciences

First Place		
Alex Roberts	7th grade	
<i>Inexpensive Food Alternative from Microalgae Waste</i>		
Challenge School	Denver	
Second Place		
Makenzy Dreher	7th grade	
<i>Butterflies: Hot & Cold - Study How Temperature Variations Affect the Metamorphosis of Cynthia Vaness</i>		
Frontier Academy Secondary School	Greeley	
Third Place		
Shelby Wood	8th grade	
<i>Inside the Wing</i>		
Monument Academy	Monument	
Fourth Place		
Jocelyn Sanchez	7th grade	
<i>Water Effects on the Growth of Brine Shrimp</i>		
Corwin International Magnet School	Pueblo	

Senior Division Animal Sciences

First Place		
Patricia Todd	11th grade	
<i>Simulating Inbreeding Depression Probability in Devils Hole Pupfish: A Proof of Concept Study</i>		
Fairview High School	Boulder	
Second Place		
Riley Meisner	10th grade	
<i>The Effects of Fluctuating Barometric Pressure on Labor Induction in Pregnant Ewes</i>		
Sterling High School	Sterling	

Junior Division Behavioral & Social Sciences

First Place		
Jonathan Haerr	8th grade	
<i>Circumstantial Morality</i>		
The Classical Academy	Colorado Springs	
Second Place		
Evelyn Bodoni	8th grade	
<i>The Lure of Distraction</i>		
Challenge School	Denver	
Third Place		
Ellie Schueler	7th grade	
<i>Fiendish Football Fans: The Influence of a Football Team's Performance on Negativity Levels</i>		
North Middle School	Colorado Springs	
Fourth Place		
William Dienstfrey	8th grade	
<i>Optical Illusions: Contrast Induced Asynchrony</i>		
Summit Charter Middle School	Boulder	
Honorable Mention		
Grace Fuselier & Meredith Neid	8th grade	
<i>A Faulty Work World</i>		
Stanley British Primary School	Denver	
Honorable Mention		
Serena Balke	8th grade	
<i>Highlighting-Helpful or Hoax?</i>		
The Classical Academy	Colorado Springs	

Senior Division Behavioral & Social Sciences

First Place		
Benjamin Morris	12th grade	
<i>The Extent and Severity of the Impostor Phenomenon Amongst College Prep, AP, and IB Students</i>		
Fairview High School	Boulder	
Second Place		
Amber Michel	9th grade	
<i>I Guess That's Why They Call It the Blues</i>		
Monte Vista High School	Monte Vista	
Third Place		
Sydney Fischer	12th grade	
<i>The Expectations and Misconceptions of Brilliance: Gender Disparities in STEM</i>		
Boulder High School	Boulder	

Fourth Place
Sydnee Roth 9th grade
The Color of Emotion
Liberty School Joes

Honorable Mention
Cassandra Blew 9th grade
Investigating Triggers of Sundowners Syndrome in Dementia Patients in an Institutional Setting
La Veta Schools La Veta

Junior Division Chemistry & Biochemistry

First Place
Madeleine Nagle 8th grade
Cost and Effectiveness of Sunscreens
Summit Charter Middle School Boulder

Second Place
Emhyr Subramanian 8th grade
An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste
Challenge School Denver

Third Place
Owen Growney 6th grade
How Do You Like Your Eggs?
Connect Charter School Pueblo

Fourth Place
Kaleb Andreatta & Cavin McCay 7th grade
Metals in Drinking Water
La Veta Schools La Veta

Honorable Mention
Tobias DiRito 6th grade
It's "Super-Cool"
Bromley East Charter School Brighton

Honorable Mention
Maddie Plank 8th grade
How Lemon, Chamomile, Honey and Sea Salt Lighten Hair
Most Precious Blood Catholic School Denver

Honorable Mention
Cole Seger 8th grade
May the Force Be with You
Sargent Jr/Sr High School Monte Vista

Honorable Mention
Lillian Buck 8th grade
The Effect of Mixing Metal Salts on Flame Color
St. John the Evangelist Catholic School Loveland

Senior Division Chemistry & Biochemistry

First Place
Avi Swartz 11th grade
Quantifying Spliceosomal Components Using Heavy Labeled Peptide Concatemers
Cherry Creek High School Greenwood Village

Second Place
Kathryn Lawrence & Katherine Younglove 12th grade
The Effect of Carbon on Iron Nickel Bimetallic Nanoparticle Degradation of Orange G
Fairview High School Boulder

Third Place
Sirisha Gudavalli 11th grade
Assembly of the CDK8 Kinase Module
Fairview High School Boulder

Fourth Place
Tara Mensch & Nicholas Finan 12th grade
Sun Grown Polymers Using Benchtop Organocatalyzed Atom Transfer Radical Polymerization
Peak to Peak Charter School Lafayette

Honorable Mention
Aaliyah Garcia 9th grade
Wildland Firefighter Defense System
Center High School Center

Junior Division Earth & Space Sciences

First Place
Charlotte Heeley 8th grade
The Earth Moving the Waves
Summit Charter Middle School Boulder

Second Place
Michaela Ravenkamp 6th grade
Crop SOS: Do Crops Create Micro-climates?
Genoa-Hugo School Hugo

Third Place
Antonio Arant 8th grade
Did Someone Say . . . Parallax?
Trinidad Middle School Trinidad

Fourth Place
Kage Pepper 7th grade
Nitro-Soil
Sargent Jr/Sr High School Monte Vista

Honorable Mention
Kate Zerefos 6th grade
How Do Tsunamis Affect the Surrounding Area?
Monument Academy Monument

Honorable Mention
Josef Perko 6th grade
Effects of Sublimation of Dry Ice on Mars Geology
Walt Clark Middle School Loveland

Senior Division Earth & Space Sciences

First Place
Michelle Kummel 10th grade
Modeling Transport in Creeks by Approximating Partial Differential Equations
Palmer High School Colorado Springs

Second Place
Jenna Salvat 9th grade
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics
Coronado High School Colorado Springs

Third Place
Elyssa Hofgard 11th grade
A Historical Analysis of the Current California Drought
Fairview High School Boulder

Fourth Place
Nathaniel Miner & Drake Ludgate 9th grade
Drake Ludgate 9th grade
Deadly Stratification: The Role of Temperature on Limnic Eruptions
Brush High School Brush

Honorable Mention	
Wyatt Wiening	10th grade
<i>Strength Exerted by Montmorillonite Clay</i>	
Trinidad High School	Trinidad

Honorable Mention	
Shannon Bland	11th grade
<i>Stop That Flood Part (V)</i>	
Lamar High School	Lamar

Junior Division Energy

First Place	
Mark Bloomfield	8th grade
<i>The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer</i>	
Holmes Middle School	Colorado Springs

Second Place	
Nicholas Huber	6th grade
<i>Hot or Not</i>	
St. Columba Catholic School	Durango

Third Place	
Chelsea Padilla	8th grade
<i>Murky Electricity</i>	
Challenge School	Denver

Fourth Place	
Tyler Higgins	7th grade
<i>Country Cooked Fuel: Efficiency Comparison of Biodiesel and Diesel</i>	
Genoa-Hugo School	Hugo

Honorable Mention	
Bailey Freeman	7th grade
<i>Capture That Ray</i>	
Miller Middle School	Durango

Honorable Mention	
Tho Nguyen	8th grade
<i>The Energy of Algae</i>	
DSST: College View Middle School	Denver

Senior Division Energy

First Place	
Trevor Jordan	12th grade
<i>A Wing of the Future: Part III</i>	
Animas High School	Durango

Second Place	
Hannah Zhang	10th grade
<i>Reducing Building Energy Consumption by Personal Thermal Regulation</i>	
Fairview High School	Boulder

Third Place	
Sophia Markuson DiPrince	9th grade
<i>Anaerobic Digestion of Used Coffee Grounds to Generate Electricity</i>	
Central High School	Pueblo

Fourth Place	
Trent Martin	12th grade
<i>Hydrologic Eddy Current Applications</i>	
Cherry Creek High School	Greenwood Village

Honorable Mention	
Joseph Weisensee	12th grade
<i>Berry Good Solar Energy: Dye Sensitized Solar Cells</i>	
Limon Schools	Limon

Honorable Mention	
Alia Kraxberger	9th grade
<i>Open or Covered vs. Aerodynamics</i>	
Genoa-Hugo School	Hugo

Junior Division Engineering

First Place	
Chase Cromwell	8th grade
<i>Music on Demand</i>	
Lamar Middle School	Lamar

Second Place	
Benjamin Wilson	8th grade
<i>Aerostat Communication System</i>	
The Classical Academy	Colorado Springs

Third Place	
Ian Curd	7th grade
<i>SwimBot: A Robot for Testing Swimming Speed and Energy</i>	
Boulder Country Day School	Boulder

Fourth Place	
Sanavi Pillai	7th grade
<i>Wireless Electricity</i>	
Mountain Ridge Middle School	Colorado Springs

Honorable Mention	
Amy Dang Nguyen & Katherine Tran	8th grade
<i>How Hot Is Too Hot? The Effect of Water Temperature on Fuel Cell Car Performance</i>	
DSST: College View Middle School	Denver

Honorable Mention	
Sarah Bian	7th grade
<i>Quaking Skylines</i>	
Challenge School	Denver

Honorable Mention	
Krithik Ramesh	8th grade
<i>Turbo Pulse: A Hybrid Pulsating Turbo Engine</i>	
Challenge School	Aurora

Honorable Mention	
Ashley Gilmore	7th grade
Sage Higbee	7th grade
<i>What's in My Ear?</i>	
Lamar Middle School	Lamar

Honorable Mention	
Johnathan Pollard	8th grade
<i>Making Biking Accessible to the Visually Impaired</i>	
The Classical Academy	Colorado Springs

Senior Division Engineering

First Place	
Jayden Edson & Jonathan Belcher	9th grade
<i>Engineering a Wind Rover Processed with Python</i>	
West Grand High School	Kremmling

Second Place	
Shepherd Kruse	11th grade
<i>Spike Vectoring: Designing and Constructing a Maneuverable Aerospike Rocket Engine</i>	
Home School	Colorado Springs

Third Place	
Zack Berohn, Ethan Stansbury & Zach Stockbauer	12th grade
<i>Geometric Optimization of Rocker Design in Performance Vehicle Suspension</i>	
Monarch High School	Louisville

Fourth Place

Matthew Hileman 12th grade
Reflected Laser Communications for Small Satellites
 The Classical Academy, College Pathways Colorado Springs

Honorable Mention

Leighton Burt 11th grade
Life Saving Locating: Developing Autonomous Avalanche Rescue, Part 2
 Sargent Jr/Sr High School Monte Vista

Honorable Mention

Anurag Golla 11th grade
Actuated Controlled Motion of a Pulsatile Hydrogel with Anisotropic Friction: A Novel Bio-Engineered Approach to Medical Targeting
 Fairview High School Boulder

Honorable Mention

Parker Randolph 9th grade
Polymer Enhanced Passive Cooling: Designing a Thin Film Material to Remove Thermal Energy and Avert Incoming Solar Radiation
 Monte Vista High School Monte Vista

Honorable Mention

Isaac Jordan 10th grade
A New Twist on Artificial Muscle: Using Supercoiled Polymer Fibers to Power Robotics and Prosthetics
 Animas High School Durango

Junior Division Environmental Sciences**First Place**

Sophie Dellinger 8th grade
Capturing Sulfur Dioxide: Chemically or Biologically?
 Summit Charter Middle School Boulder

Second Place

Nathaniel Brim 7th grade
Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment
 The Classical Academy Colorado Springs

Third Place

Avery Lin 8th grade
Clean Green Buffer Machine: A Study of How Phytoplankton Fight Climate Change
 Stanley British Primary School Denver

Fourth Place

Scott Prieve 7th grade
Saving the Slope: How Does the Orientation of Contour-felled Logs Affect Erosion on a Barren Slope?
 North Middle School Colorado Springs

Honorable Mention

Logan Kilgroe 8th grade
Tsunami!
 Turner Middle School Berthoud

Honorable Mention

Grace Gulig 8th grade
A Worm's Eye View on Pesticides
 Monument Academy Monument

Honorable Mention

Jordan Eskew & Ella Rise 7th grade
How's the Air Out There?
 Windsor Charter Academy Windsor

Senior Division Environmental Sciences**First Place**

Kyle Fridberg 10th grade
Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams
 Fairview High School Boulder

Second Place

Kylie Hunter 10th grade
Wastewater Sourceflow and Its Effect on Energy Output in a Pressure Retarded Osmosis System
 Cherry Creek High School Greenwood Village

Third Place

Josephina Hoskins 10th grade
Effect of Advancing Springs on Population Fluctuations of Migrant Cayuga Lake Warblers (Parulidae)
 Fairview High School Boulder

Fourth Place

Wyeth Rossi 11th grade
Lead Remediation: Applications of Algae in Fresh Water
 Home School Durango

Honorable Mention

Eric Bear 10th grade
Hybrid Water Treatment with Slow Biosand Filter and Solar-Powered Electrolysis Chlorine Producing Unit
 Colorado Academy Denver

Junior Division Mathematics & Computer Sciences**First Place**

Anudeep Golla 8th grade
Seeking Predictability Trapped in the Midst of the Chaos of the Mandelbrot Set
 Southern Hills Middle School Boulder

Second Place

Sara Nehring 7th grade
Do the Shuffle
 Monte Vista Middle School Monte Vista

Third Place

Daniel Zamoshchin 8th grade
Near Field Communication for Digital and Physical Two Factor Authentication
 Challenge School Denver

Fourth Place

Kael Mattics 6th grade
Mathematics of a Tsunami Wave
 Olathe Middle School Olathe

Honorable Mention

Isabelle Washburn 7th grade
All A'board
 Miller Middle School Durango

Senior Division Mathematics & Computer Sciences**First Place**

Joyce Xu 11th grade
Predictive Modeling of Optimal Cancer Therapies
 Fairview High School Boulder

Second Place

Andrea Lin 10th grade
A Genetic Algorithm Based Approach to Optimize Sound Externalization
 Fairview High School Boulder

Third Place

Molly Nehring 9th grade
Python Cubed
 Monte Vista High School Monte Vista

Fourth Place

Tyler Giallanza 11th grade
Novel Applications of Stochastic Global Optimization Algorithms to the Shortest Common Superstring Problem
 Cherry Creek High School Greenwood Village

Junior Division Medicine & Health**First Place**

Nathan Panzer 7th grade
The Effects of a Granulocyte-Colony Stimulating Factor on White Blood Cells
 North Arvada Middle School Arvada

Second Place

Georgia Mynatt 7th grade
Does the Shirt on Your Back Stop the Sun's Attack?
 Miller Middle School Durango

Third Place

Anjali Chaparala 7th grade
Protect It or Forget It
 The Classical Academy Colorado Springs

Fourth Place

Sam Duarte 8th grade
The Perils of Practice: Noise Dosimetry, Pipers, Earplugs and Noise Induced Hearing Loss?
 Quest Academy Dacono

Honorable Mention

Galileo Dumont 8th grade
Does Going Up Bring You Down? Effects of Altitude on Lactate Threshold in Unacclimatized Individuals
 Estes Park Middle School Estes Park

Honorable Mention

Kristine Hoffner 8th grade
Altitude's Effect on the Oxygen Hemoglobin Dissociation Curve
 Home School Center

Honorable Mention

Laura Clark 8th grade
Human Microbiome: Medical Ecology and the Effect of Behavior on Human Microflora
 St. Columba Catholic School Durango

Honorable Mention

Katie Mann 8th grade
Feeling Charged?
 Classical Conversations Monument

Senior Division Medicine & Health**First Place**

Isani Singh 10th grade
Studying the Effects of a Missing X Chromosome on the Liver
 Cherry Creek High School Greenwood Village

Second Place

Hari Sowrirajan 10th grade
Nanoparticle-Induced Alterations in Cellular Junctions and Possible Therapeutic Interventions
 Cherry Creek High School Greenwood Village

Third Place

Stephanie Zhang 10th grade
DNA Packing and Diseases: Developing a Pipeline to Analyze Data Collected from ATAC-sequence
 Fairview High School Boulder

Fourth Place

Laura Fleming 12th grade
Valvular Interstitial Cell Activation in Response to Pro-Inflammatory Cytokine Treatment
 Fairview High School Boulder

Honorable Mention

Sirey Zhang 12th grade
The Effect of Epigenetics on CD8 T-Cell Function
 Cherry Creek High School Greenwood Village

Junior Division Microbiology & Molecular Biology**First Place**

Alyssa Keirn 8th grade
Solar Powered Decontaminator Testing
 Blevins Middle School Fort Collins

Second Place

Eliot Wright 7th grade
Proteomic Approach to UV/HNO₃ Deamination Mutagenesis in Antibiotic-Resistant Monera
 Miller Middle School Durango

Third Place

Breann Ritter 8th grade
Leaf No Trace Behind
 St. Stephen's Catholic School Glenwood Springs

Fourth Place

Isla Anderson 8th grade
The Effects of Water Contaminants of the Microbiome of a Stalk Eyed Fly
 Skinner Middle School Denver

Honorable Mention

Gavin Grant 6th grade
The War Against Bacteria: Will Copper Win?
 Highland Park Elementary School Pueblo

Senior Division Microbiology & Molecular Biology**First Place**

Rebecca Bloomfield 11th grade
*GASP!: Growth Advantage in Stationary Phase in *Acinetobacter baylyi**
 Palmer High School Colorado Springs

Second Place

Katelynn Salmon 9th grade
*Biodetoxification Spectrum of *Symbiotaphrina Kochii* on Carcinogens Found in Cigarette Smoke*
 Palmer Ridge High School Monument

Third Place

Eric Sun 12th grade
*Computational Analysis of Stress Responses in *Saccharomyces cerevisiae**
 Pueblo West High School Pueblo West

Fourth Place

Kaitlyn Carson 11th grade
Farm Fresh Eggs; A Backyard Bacteria Source
 Windsor High School Windsor

Honorable Mention

Jessalyn Bay-Voit 11th grade
The Effects of Giardia on the Ecosystem of a Farm
 Mancos High School Mancos

Honorable Mention

Maya Jean Duran¹ & Sayer Guerrero² 10th grade
Innie or Outie II: Does Age Really Matter?
¹Dolores Huerta Preparatory High School Pueblo
²South High School Pueblo

Junior Division Physics**First Place**

Adam Vagle 8th grade
The Three Body Problem and the Search for Intelligent Life
 Stanley British Primary School Denver

Second Place

Xander Duvall 6th grade
How Does Atmosphere Affect the Amount of Subatomic Particles?
 Banning Lewis Ranch Academy Colorado Springs

Third Place

Skyler Kranjcec 7th grade
Let's Solve Levitation with a Sine Wave Situation
 Boulder Country Day School Boulder

Fourth Place

Anna Cheesewright 6th grade
Hot or Cold: Which Is a Magnet's Kryptonite?
 St. Columba Catholic School Durango

Honorable Mention

Megan Goforth-Harmon 7th grade
The Effect of Dropping Stitched Tomatoes and How Well They Hold
 Morey Middle School Denver

Senior Division Physics**First Place**

Amanda Li 10th grade
Determining Protein Unfolding Times Through Analysis of Single Molecule Force Spectroscopy Data
 Fairview High School Boulder

Second Place

Matthew Radzihovsky 12th grade
Buffer Gas Cooling in Molecular Spectroscopy
 Boulder High School Boulder

Third Place

Severn Young 12th grade
Using Discharge in Freestyle to Swim the "Perfect Race"
 Greeley West High School Greeley

Fourth Place

James Berndt & Kyle Berndt 12th grade
Quantum Levitation: The Future?
 Limon Schools Limon

Honorable Mention

Christoph Cikraji 11th grade
Applications of Magnetic Fields for Induction of Artificial Gravity
 Durango High School Durango

Honorable Mention

Jaden Hoechstetter 10th grade
Modulation of Laser Beam Using a Digital Micromirror Device
 Fairview High School Boulder

Junior Division Plant Sciences**First Place**

Kathryn Kummel 7th grade
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies
 North Middle School Colorado Springs

Second Place

Logan DeGraaf 7th grade
Venus Fly Trap Response Time
 Evangelical Christian Academy Colorado Springs

Third Place

Braxton O'Bryan 6th grade
How Deep Can You Plant?
 Alta Vista Charter School Lamar

Fourth Place

Sarah Duzenack 7th grade
A Comparison of Edomycorrhizae and Commercial Fertilizer on Blue Grass.
 La Veta Schools La Veta

Honorable Mention

Trevor Frank 8th grade
The Hard Facts of Water: Is Your Water Inhibiting Your Fertilizer?
 Liberty School Joes

Honorable Mention

L. Sofia Bader 7th grade
Is The Grass Greener?
 Miller Middle School Durango

Senior Division Plant Sciences**First Place**

Ana Mayordomo 10th grade
Effects of Phosphorus and Nitrogen Levels in Soil on the Growth of Grass Under Drought Conditions
 Cherry Creek High School Greenwood Village

Second Place

Sophia Niccoli 9th grade
Storage Wars: The Effect of Storage Conditions on Feeds
 Liberty School Joes

Third Place

Kit Bellefeuille 9th grade
Glomus spp. and Azospirillum brasilense Inoculation of Triticum aestivum and Medicago sativa
 Limon Schools Limon

Fourth Place

Tyson Lichty 9th grade
SNS-244 vs. Captan The Battle That Kills: Possible Prevention of Aspergillus flavus in Seed Storage
 Liberty School Joes

2016 Colorado Science and Engineering Fair

Special Awards Press Release

Colorado Science & Engineering Fair

Elemer Bernath Technical Writing Award

Sophie Reeves 8th grade
 \$100, certificate
 Summit Charter Middle School Boulder
The Relationship between Cloud Chambers, Alpha Particles, Radon-222, and Different Floors of a House

Ralph Desch Memorial Technical Writing Award

Laura Fleming 12th grade
 \$100, certificate
 Fairview High School Boulder
Valvular Interstitial Cell Activation in Response to Pro-Inflammatory Cytokine Treatment

Poster Art Contest

Alyssa Keirn 8th grade
 \$100, certificate
 Blevins Middle School Fort Collins

Student Choice Award

Kathryn Kummel 7th grade
 \$100, certificate, trophy
 North Middle School Colorado Springs
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies

Marguerite Schueler 10th grade
 \$100, certificate, trophy
 Palmer High School Colorado Springs
Pick a Color Any Color: The Influence Negative Experiences Have on Unconscious Decisions

Pioneers of Science

Ada Lovelace Award

Wayttyn Wollert 6th grade
 \$50, certificate, poster of pioneer scientist
 Wiley Jr/Sr High School Wiley
Is That Smile Golden?

Alan Turing Award

Sara Nehring 7th grade
 \$50, certificate, poster of pioneer scientist
 Monte Vista Middle School Monte Vista
Do the Shuffle

Albert von Szent-Gyorgyi Award

Brooks Reed 7th grade
 \$50, certificate, poster of pioneer scientist
 Vail Mountain School Vail
Force and Pressure

Alfred Wegener Award

Kate Zerefos 6th grade
 \$50, certificate, poster of pioneer scientist
 Monument Academy Monument
How Do Tsunamis Affect the Surrounding Area?

Christa McAuliffe Award

Teegan Oatley 8th grade
 \$50, certificate, poster of pioneer scientist
 Flagstaff Academy Longmont
Hydroelectric Phone Charger

Elizabeth Blackwell Award

Sam Duarte 8th grade
 \$50, certificate, poster of pioneer scientist
 Quest Academy Dacono
The Perils of Practice: Noise Dosimetry, Pipers, Earplugs and Noise Induced Hearing Loss?

G. V. Black Award

Audrey Gulig 8th grade
 \$50, certificate, poster of pioneer scientist
 Monument Academy Monument
Concussion Protection, Part 2

Gifford Pinchot Award

Riley Ruff 8th grade
 \$50, certificate, poster of pioneer scientist
 North Arvada Middle School Arvada
Pond-er This!

Hedy Lamar Award

Aiden Quayle 7th grade
 \$50, certificate, poster of pioneer scientist
 Miller Middle School Durango
Coffee Cup Conundrum

John Dalton Award

Maddie Plank 8th grade
 \$50, certificate, poster of pioneer scientist
 Most Precious Blood Catholic Denver
How Lemon, Chamomile, Honey and Sea Salt Lighten Hair

Louis Pasteur Award

Sena Uctuk 7th grade
 \$50, certificate, poster of pioneer scientist
 Kinard Core Knowledge Middle Fort Collins
Icy Coli?

Luther Burbank Award

Kaydee Dodge 7th grade
 \$50, certificate, poster of pioneer scientist
 Craver Middle School Colorado City
Pumpkin Preservation Part II: Jack-o-Lantern Preservation

Margaret Mead Award

Ellie Schueler 7th grade
 \$50, certificate, poster of pioneer scientist
 North Middle School Colorado Springs
Fiendish Football Fans: The Influence of a Football Team's Performance on Negativity Levels

Norman Borlaug Award

Lauren Weaber 8th grade
 \$50, certificate, poster of pioneer scientist
 Eaton Middle School Eaton
Is the Grass Greener on the Other End of the Horse?

Rachel Carson Award

Tommy Pope 6th grade
\$50, certificate, poster of pioneer scientist
St. Columba Catholic School Durango
Healthier Water: A Study of Water Filtration Using Natural Materials

Sigmund Freud Award

Grace Fuselier & Meredith Neid 8th grade
\$50, certificate, poster of pioneer scientist
Stanley British Primary School Denver
A Faulty Work World

Sir Frederick Herschel Award

Collin Farley 6th grade
\$50, certificate, poster of pioneer scientist
Abner Baker Central School Fort Morgan
Attraction Action

Temple Grandin Award

Makenzy Dreher 7th grade
\$50, certificate, poster of pioneer scientist
Frontier Academy Secondary School Greeley
Butterflies: Hot & Cold - Study How Temperature Variations Affect the Metamorphosis of Cynthia Vaness

Military

Office of Naval Research

Naval Science Award

Hayli Mackey 7th grade
certificate, medallion
Springfield Junior High School Springfield
What Genre of Music Affects Blood Pressure the Most?

Nicholas Huber 6th grade
certificate, medallion
St. Columba Catholic School Durango
Hot or Not

Scott Prieve 7th grade
certificate, medallion
North Middle School Colorado Springs
Saving the Slope: How Does the Orientation of Contour-felled Logs Affect Erosion on a Barren Slope?

Nathan Panzer 7th grade
certificate, medallion
North Arvada Middle School Arvada
The Effects of a Granulocyte-Colony Stimulating Factor on White Blood Cells

Krithik Ramesh 8th grade
certificate, medallion
Challenge School Aurora
Turbo Pulse: A Hybrid Pulsating Turbo Engine

Jenna Salvat 9th grade
\$75 gift certificate (to be mailed), certificate, medallion
Coronado High School Colorado Springs
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics

Kylie Hunter 10th grade
\$75 gift certificate (to be mailed), certificate, medallion
Cherry Creek High School Greenwood Village
Wastewater Sourceflow and Its Effect on Energy Output in a Pressure Retarded Osmosis System

Stephanie Zhang 10th grade
\$75 gift certificate (to be mailed), certificate, medallion
Fairview High School Boulder
DNA Packing and Diseases: Developing a Pipeline to Analyze Data Collected from ATAC-sequence

Organizational

Air & Waste Management Association

Rocky Mountain States Section

Air & Waste Management Award

Emily Idler 8th grade
\$50
Liberty School Joes
The Exhausted Farmer: The Effects of Diesel Exhaust on Wheat

Sophie Dellinger 8th grade
\$50
Summit Charter Middle School Boulder
Capturing Sulfur Dioxide: Chemically or Biologically?

Avery Lin 8th grade
\$100
Stanley British Primary School Denver
Clean Green Buffer Machine: A Study of How Phytoplankton Fight Climate Change

Emhyr Subramanian 8th grade
\$100
Challenge School Denver
An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste

Kathryn Lawrence & Katherine Younglove 12th grade
\$50
Fairview High School Boulder
The Effect of Carbon on Iron Nickle Bimetallic Nanoparticle Degradation of Orange G

Julianna O'Clair & Michelle Ren 9th grade
\$50
Brush High School Brush
The Production of Methane Gas in Waste Biomass

Eric Bear 10th grade
\$100
Colorado Academy Denver
Hybrid Water Treatment with Slow Biosand Filter and Solar-Powered Electrolysis Chlorine Producing Unit

American Association of University Women

AAUW Award for Women in STEM

Rochelle Casey 6th grade
\$100
Walsh Elementary School Walsh
Rise Up!

Kelsey Lindbloom 12th grade
\$100
Salida High School Salida
Fueling the Future Phase 5: A Single-Chambered Microbial Fuel Cell as a Trickle Charger

**American Chemical Society
Colorado Local Section
ACS Award**

Owen Growney \$25, certificate Connect Charter School <i>How Do You Like Your Eggs?</i>	6th grade Pueblo
Tobias DiRito \$25, certificate Bromley East Charter School <i>It's "Super-Cool"</i>	6th grade Brighton
Dustin Medina \$25, certificate Corwin International Magnet School <i>Catalase Enzymes: How Does Temperature Affects Their Rates?</i>	7th grade Pueblo
Emhyr Subramanian \$25, certificate Challenge School <i>An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste</i>	8th grade Denver
Madeleine Nagle \$100, certificate Summit Charter Middle School <i>Cost and Effectiveness of Sunscreens</i>	8th grade Boulder
Aliya Godoy \$25, certificate Skyview Academy <i>Does Temperature of a Crime Scene Affect the Transfer Quality of a Finger Print?</i>	9th grade Highlands Ranch
Sirisha Gudavalli \$25, certificate Fairview High School <i>Assembly of the CDK8 Kinase Module</i>	11th grade Boulder
Tara Mensch & Nicholas Finan \$25, certificate Peak to Peak Charter School <i>Sun Grown Polymers Using Benchtop Organocatalyzed Atom Transfer Radical Polymerization</i>	12th grade Lafayette
Kathryn Lawrence & Katherine Younglove \$25, certificate Fairview High School <i>The Effect of Carbon on Iron Nickle Bimetallic Nanoparticle Degradation of Orange G</i>	12th grade Boulder
Avi Swartz \$100, certificate Cherry Creek High School <i>Quantifying Spliceosomal Components Using Heavy Labeled Peptide Concatemers</i>	11th grade Greenwood Village

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

Sophie Reeves \$150 Summit Charter Middle School <i>The Relationship between Cloud Chambers, Alpha Particles, Radon-222, and Different Floors of a House</i>	8th grade Boulder
---	--------------------------

**American Institute of Aeronautics & Astronautics
Rocky Mountain Section**

Excellence in Aeronautics & Astronautics Award

Siddarth Ijju Arduino Kit & 1 Year AIAA Student Membership Challenge School <i>UAV-Emergency Response: Building an Autonomous Quadcopter for Emergency Response</i>	8th grade Denver
Rylan McCall Arduino Kit & 1 Year AIAA Student Membership Walsh Jr/Sr High School <i>Aviation Aerodynamics</i>	8th grade Walsh
Jayden Edson & Jonathan Belcher Arduino Kit & 1 Year AIAA Student Membership West Grand High School <i>Engineering a Wind Rover Processed with Python</i>	9th grade Kremmling
Trevor Jordan Arduino Kit & 1 Year AIAA Student Membership Animas High School <i>A Wing of the Future: Part III</i>	12th grade Durango

**American Institute of Chemical Engineers
Rocky Mountain Section**

Excellence in Chemical Engineering Award

Aubrie Lewis \$75 Olathe Middle School <i>Desalination Evaporation</i>	6th grade Olathe
Sophie Dellinger \$100 Summit Charter Middle School <i>Capturing Sulfur Dioxide: Chemically or Biologically?</i>	8th grade Boulder
Lindsay Golding \$75 Edison High School <i>Energy Efficient, Applicable Window Coverings</i>	9th grade Yoder
Sophia Markuson DiPrince \$100 Central High School <i>Anaerobic Digestion of Used Coffee Grounds to Generate Electricity</i>	9th grade Pueblo

**American Institute of Professional Geologists
Colorado Section**

AIPG Certificate of Excellence in the Geosciences

Josef Perko \$50 Walt Clark Middle School <i>Effects of Sublimination of Dry Ice on Mars Geology</i>	6th grade Loveland
Charlotte Heeley \$100 Summit Charter Middle School <i>The Earth Moving the Waves</i>	8th grade Boulder
Elyssa Hofgard \$50 Fairview High School <i>A Historical Analysis of the Current California Drought</i>	11th grade Boulder

Jenna Salvat 9th grade
\$100
Coronado High School Colorado Springs
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics

**American Meteorological Society
Denver/Boulder Section**

*Award for Excellence in Atmospheric Science
Research*

Breana Sinclair 7th grade
gift certificate, certificate of recognition
Lamar Middle School Lamar
Geomagnetic Storms

Elyssa Hofgard 11th grade
gift certificate, certificate of recognition
Fairview High School Boulder
A Historical Analysis of the Current California Drought

**American Public Power Association
Platte River Power Authority**

*APPA/Platte River Power Authority Special Award for
Demonstration of Energy & Efficiency Development*

Chelsea Padilla 8th grade
\$100
Challenge school Denver
Murky Electricity

Hannah Zhang 10th grade
\$150
Fairview High School Boulder
Reducing Building Energy Consumption by Personal Thermal Regulation

*APPA/Platte River Power Authority Special Award for
Environmental Innovation*

Sophie Dellinger 8th grade
\$100
Summit Charter Middle School Boulder
Capturing Sulfur Dioxide: Chemically or Biologically?

Eric Bear 10th grade
\$150
Colorado Academy Denver
Hybrid Water Treatment with Slow Biosand Filter and Solar-Powered Electrolysis Chlorine Producing Unit

**American Statistical Association
Colorado/Wyoming Chapter**

David Young Memorial Award

Kathryn Kummel 7th grade
\$200, student membership in the American Statistical Association, acknowledgement at chapter spring meeting and on chapter web site
North Middle School Colorado Springs
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies

Kyle Fridberg 10th grade
\$200, student membership in the American Statistical Association, acknowledgement at chapter spring meeting and on chapter web site
Fairview High School Boulder
Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams

**American Vacuum Society
Rocky Mountain Chapter**

Excellence in Physical Sciences & Engineering Award

Lillian Buck 8th grade
\$50, \$50 matching award to teacher/sponsor
St. John the Evangelist Catholic Loveland
The Effect of Mixing Metal Salts on Flame Color

Sarah Bian 7th grade
\$75, \$75 matching award to teacher/sponsor
Challenge School Denver
Quaking Skylines

Skyler Kranjcec 7th grade
\$75, \$75 matching award to teacher/sponsor
Boulder Country Day School Boulder
Let's Solve Levitation with a Sine Wave Situation

Nathaniel Brim 7th grade
\$100, \$100 matching award to teacher/sponsor
The Classical Academy Colorado Springs
Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment

ASM International

ASM Materials Education Foundation Award

Nathaniel Brim 7th grade
\$150
The Classical Academy Colorado Springs
Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment

Biophysical Society

Biophysical Excellence Award

Amanda Li 10th grade
\$100, certificate
Fairview High School Boulder
Determining Protein Unfolding Times Through Analysis of Single Molecule Force Spectroscopy Data

Colorado Association of Meat Processors

Excellence in Meat Science & Food Safety Award

Kaitlyn Carson 11th grade
\$75, certificate
Windsor High School Windsor
Farm Fresh Eggs; A Backyard Bacteria Source

Colorado Association of Science Teachers

CAST Award

Makayla Compton 8th grade
\$75
Liberty Point International Middle Pueblo West
Antibiotics vs. Probiotics

Mark Bloomfield 8th grade
\$75
Holmes Middle School Colorado Springs
The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer

Aliya Godoy 9th grade
\$75
Skyview Academy Highlands Ranch
Does Temperature of a Crime Scene Affect the Transfer Quality of a Finger Print?

Hari Sowrirajan 10th grade
\$75
Cherry Creek High School Greenwood Village
Nanoparticle-Induced Alterations in Cellular Junctions and Possible Therapeutic Interventions

Colorado Biology Teachers' Association CBTA Best Biology Project Award

Kathryn Kummel 7th grade
\$50, certificate
North Middle School Colorado Springs
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies

Eliot Wright 7th grade
\$100, certificate
Miller Middle School Durango
Proteomic Approach to UV/HNO₃ Deamination Mutagenesis in Antibiotic-Resistant Monera

Katelynn Salmon 9th grade
\$50, certificate
Palmer Ridge High School Monument
Biodetoxification Spectrum of Symbiotaphrina Kochii on Carcinogens Found in Cigarette Smoke

Hannah Niccoli 11th grade
\$100, certificate
Liberty School Joes
A Delicate Balance: Relationships Between Electrolytes, pH, and Probiotics

Colorado BioScience Institute BioGENEius Challenge

Laura Fleming 12th grade
all-expense paid trip to compete at the U.S. National and International competition held in San Francisco, CA June 2016 during the International BIO Convention
Fairview High School Boulder
Valvular Interstitial Cell Activation in Response to Pro-Inflammatory Cytokine Treatment

Colorado Chemistry Teachers' Association CCTA Chemistry Award

Mark Bloomfield 8th grade
\$100
Holmes Middle School Colorado Springs
The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer

Aliya Godoy 9th grade
\$100
Skyview Academy Highlands Ranch
Does Temperature of a Crime Scene Affect the Transfer Quality of a Finger Print?

Colorado Dental Association CDA Excellence in Oral Health Award

Brecken Dobbs 7th grade
\$50
La Veta Schools La Veta
Tooth Enamel? Can It Really Be Strengthened?

Waytyn Wollert 6th grade
\$100
Wiley Jr/Sr High School Wiley
Is That Smile Golden?

Edwin Bodoni 9th grade
\$100
Cherry Creek High School Greenwood Village
The Effect of Bruxism on Mercury Leakage from Amalgam Restorations

Colorado Division of Reclamation, Mining & Safety

Outstanding Earth Science Award

Michaela Ravenkamp 6th grade
\$75
Genoa-Hugo School Hugo
Crop SOS: Do Crops Create Micro-climates?

Wyatt Wiening 10th grade
\$75
Trinidad High School Trinidad
Strength Exerted by Montmorillonite Clay

Colorado Environmental Health Association Environmental Health Award

Sophie Reeves 8th grade
\$75, framed certificate
Summit Charter Middle School Boulder
The Relationship between Cloud Chambers, Alpha Particles, Radon-222, and Different Floors of a House
Wyeth Rossi 11th grade
\$150, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference (\$400 value)
Home School Durango
Lead Remediation: Applications of Algae in Fresh Water

Colorado Foundation for Agriculture Agriculture in the Classroom Award

Eojin Lee 8th grade
\$50, certificate
Summit Charter Middle School Boulder
A Bout of Drought: Will It Change Cell Size?

Dylan Renquist 8th grade
\$50, certificate
Walsh Jr/Sr High School Walsh
Grow It Right! Testing the Effect of Different Soils on Plant Growth

Sophia Niccoli 9th grade
\$50, certificate
Liberty School Joes
Storage Wars: The Effect of Storage Conditions on Feeds

Tyson Lichty 9th grade
\$50, certificate
Liberty School Joes
SNS-244 vs. Captan The Battle That Kills: Possible Prevention of Aspergillus flavus in Seed Storage

Colorado Geographic Alliance
COGA Application of Geography Award

Jeffrey Brittain 7th grade
\$100
Ignacio Middle School Ignacio
Deer Crossing
Elyssa Hofgard 11th grade
\$100
Fairview High School Boulder
A Historical Analysis of the Current California Drought

Colorado Medical Society
CMS Education Foundation Award

Nathan Panzer 7th grade
\$100, invitation to the winners & their parents to exhibit at the CMS annual meeting and attendance at the Presidential inaugural Dinner with a paid overnight stay
North Arvada Middle School Arvada
The Effects of a Granulocyte-Colony Stimulating Factor on White Blood Cells

Laura Fleming 12th grade
\$100, invitation to the winners & their parents to exhibit at the CMS annual meeting and attendance at the Presidential inaugural Dinner with a paid overnight stay
Fairview High School Boulder
Valvular Interstitial Cell Activation in Response to Pro-Inflammatory Cytokine Treatment

Colorado Mineral Society
Best Earth Science Award

Logan Kilgroe 8th grade
\$35, 1 mineral specimen, book, certificate
Turner Middle School Berthoud
Tsunami!

Charlotte Heeley 8th grade
\$50, 1 mineral specimen, book, certificate
Summit Charter Middle School Boulder
The Earth Moving the Waves

Nathaniel Miner & Drake Ludgate 9th grade
\$35, 1 mineral specimen, book, certificate
Brush High School Brush
Deadly Stratification: The Role of Temperature on Limnic Eruptions

Jenna Salvat 9th grade
\$50, 1 mineral specimen, book, certificate
Coronado High School Colorado Springs
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics

Colorado Mycological Society
Excellence in Mycological Research Award

Sarah Duzenack 7th grade
\$100, CMS honorary membership certificate, signed copy of Vera Evenson's "Rocky Mountain Mushrooms" (new edition)
La Veta Schools La Veta
A Comparison of Edomycorrhizae and Commercial Fertilizer on Blue Grass.

Colorado Native Plant Society
Excellence in Plant Science Award

Kathryn Kummel 7th grade
\$50
North Middle School Colorado Springs
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies

Ruby Stith 8th grade
\$50
Skinner Middle School Denver
Type of Seed vs. Distance Dispersed by Wind

Colorado Scientific Society
Excellence in Geology Award

Josef Perko 6th grade
\$50
Walt Clark Middle School Loveland
Effects of Sublimation of Dry Ice on Mars Geology

Michaela Ravenkamp 6th grade
\$75
Genoa-Hugo School Hugo
Crop SOS: Do Crops Create Micro-climates?

Nathaniel Miner & Drake Ludgate 9th grade
\$75
Brush High School Brush
Deadly Stratification: The Role of Temperature on Limnic Eruptions

Wyatt Wiening 10th grade
\$100
Trinidad High School Trinidad
Strength Exerted by Montmorillonite Clay

Colorado State University
College of Agricultural Sciences

Innovations in the Science of Agriculture Award

Sarah Duzenack 7th grade
\$500
La Veta Schools La Veta
A Comparison of Edomycorrhizae and Commercial Fertilizer on Blue Grass.

Patricia Todd 11th grade
\$500
Fairview High School Boulder
Simulating Inbreeding Depression Probability in Devils Hole Pupfish: A Proof of Concept Study

Colorado State University
Department of Biochemistry & Molecular Biology
Excellence in Biochemistry & Molecular Biology
Award

Hari Sowrirajan 10th grade
\$100
Cherry Creek High School Greenwood Village
Nanoparticle-Induced Alterations in Cellular Junctions and Possible Therapeutic Interventions

Colorado State University
Department of Chemistry
Excellence in Chemistry Award

Connor McCauley 8th grade
\$100, certificate
Blessed Sacrament Catholic School Denver
Vitamin C in Cooked Vegetables
Kathryn Lawrence & Katherine Younglove 12th grade
\$100, certificate
Fairview High School Boulder
The Effect of Carbon on Iron Nickel Bimetallic Nanoparticle Degradation of Orange G

Colorado State University
Dept. of Horticulture & Landscape Architecture
Excellence in Horticulture and Landscape
Architecture Award

Kammi Carson 6th grade
\$125
Resurrection Christian School Loveland
Soil vs. Coffee Beans
Sarah Duzenack 7th grade
\$125
La Veta Schools La Veta
A Comparison of Edomycorrhizae and Commercial Fertilizer on Blue Grass.
Chinmay Jayanty 6th grade
\$125
Sargent Elementary School Monte Vista
Healthy Potatoes
Ana Mayordomo 10th grade
\$125
Cherry Creek High School Greenwood Village
Effects of Phosphorus and Nitrogen Levels in Soil on the Growth of Grass Under Drought Conditions

Colorado State University
Energy Institute
Energy Achievement Award

Hannah Zhang 10th grade
\$500, certificate
Fairview High School Boulder
Reducing Building Energy Consumption by Personal Thermal Regulation

Colorado State University
School of Biomedical Engineering
Excellence in Biomedical Engineering Award

Ashley Gilmore & Sage Higbee 7th grade
goody bag of biomedical engineering stuff
Lamar Middle School Lamar
What's in My Ear?
Anurag Golla 11th grade
goody bag of biomedical engineering stuff
Fairview High School Boulder
Actuated Controlled Motion of a Pulsatile Hydrogel with Anisotropic Friction: A Novel Bio-Engineered Approach to Medical Targeting
Isaac Jordan 10th grade
\$50 gift card to the CSU Bookstore, goody bag of biomedical engineering stuff
Animas High School Durango
A New Twist on Artificial Muscle: Using Supercoiled Polymer Fibers to Power Robotics and Prosthetics

Colorado Veterinary Medical Association
Veterinary Science Award

Alex Roberts 7th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate
Challenge School Denver
Inexpensive Food Alternative From Microalgae Waste
Riley Meisner 10th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate
Sterling High School Sterling
The Effects of Fluctuating Barometric Pressure on Labor Induction in Pregnant Ewes

Colorado's Touchstone Energy Cooperatives
The Colorado EnergyWise Award

Mark Bloomfield 8th grade
\$250
Holmes Middle School Colorado Springs
The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer
Hannah Zhang 10th grade
\$250
Fairview High School Boulder
Reducing Building Energy Consumption by Personal Thermal Regulation

Colorado-Wyoming Society of American Foresters
Excellence in Forestry Research Award

Kathryn Kummel 7th grade
\$100
North Middle School Colorado Springs
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies
Breann Ritter 8th grade
\$100
St. Stephen's Catholic School Glenwood Springs
Leaf No Trace Behind

Comstock Family

Heather Comstock Memorial Award

Stephanie Zhang 10th grade
\$300
Fairview High School Boulder
DNA Packing and Diseases: Developing a Pipeline to Analyze Data Collected from ATAC-sequence

Constant Family

Award for Excellence in Computer Science

Sara Nehring 7th grade
\$100, certificate
Monte Vista Middle School Monte Vista
Do the Shuffle
Joyce Xu 11th grade
\$200, certificate
Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Dairy Tech, Inc.

Dairy Tech Agricultural Focus Award

Kaitlyn Carson 11th grade
\$150
Windsor High School Windsor
Farm Fresh Eggs; A Backyard Bacteria Source
Riley Meisner 10th grade
\$250
Sterling High School Sterling
The Effects of Fluctuating Barometric Pressure on Labor Induction in Pregnant Ewes

Eppler Family

Eppler Family Award

Johnathan Pollard 8th grade
microprocessor kit & digital multimeter (valued at \$100)
The Classical Academy Colorado Springs
Making Biking Accessible to the Visually Impaired
Teegan Oatley 8th grade
microprocessor kit & digital multimeter (valued at \$100)
Flagstaff Academy Longmont
Hydroelectric Phone Charger

Fort Collins Conservation District

Conservation District Award

Scott Prieve 7th grade
\$50, plaque
North Middle School Colorado Springs
Saving the Slope: How Does the Orientation of Contour-felled Logs Affect Erosion on a Barren Slope?
Kyle Fridberg 10th grade
\$50, plaque
Fairview High School Boulder
Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams

Frank Armbruster Foundation

Armbruster Memorial Award

Kevyn Kelso 11th grade
\$100
The Classical Academy Colorado Springs
Building a High-Resolution Fused Deposition Modeling 3D Printer Out of a Bed Frame

Geological Society of America

GSA Awards in Environmental Geology

Josef Perko 6th grade
plaque, GSA membership, 2016 GSA calendar, GSA photo scale
Walt Clark Middle School Loveland
Effects of Sublimation of Dry Ice on Mars Geology
Wyatt Wiening 10th grade
plaque, GSA membership, 2016 GSA calendar, GSA photo scale,
Rite in the Rain notebook, Rite in the Rain all weather pen
Trinidad High School Trinidad
Strength Exerted by Montmorillonite Clay
Michaela Ravenkamp 6th grade
plaque, GSA membership, 2016 GSA calendar, GSA photo scale,
Rite in the Rain notebook, Rite in the Rain all weather pen, The
Geoscientist Handbook
Genoa-Hugo School Hugo
Grop SOS: Do Crops Create Micro-climates?

Gromko Family

Gerald Gromko Memorial Award

Matthew Hileman 12th grade
\$150
The Classical Academy, College Colorado Springs
Reflected Laser Communications for Small Satellites

Human Factors & Ergonomics Society

Rocky Mountain Chapter

Excellence in Human Factors & Ergonomics Award

Sam Duarte 8th grade
\$100
Quest Academy Dacono
The Perils of Practice: Noise Dosimetry, Pipers, Earplugs and Noise Induced Hearing Loss?
Katelyn Anderson 11th grade
\$100
Edison High School Yoder
EMS App for Paramedic Training and Assistance

Institute of Electrical & Electronics Engineers

High Plains Section

IEEE Award

Benjamin Wilson 8th grade
\$100, Arduino Experimenter's Kit
The Classical Academy Colorado Springs
Aerostat Communication System
Matthew Hileman 12th grade
\$150, Arduino Experimenter's Kit
The Classical Academy, College Colorado Springs
Reflected Laser Communications for Small Satellites

Little Shop of Physics

Matthew McCausland Memorial Award

Megan Goforth-Harmon	7th grade
science equipment/instrument	
Morey Middle School	Denver
<i>The Effect of Dropping Stitched Tomatoes and How Well They Hold</i>	
Landon Tolsma	7th grade
science equipment/instrument	
Sargent Jr/Sr High School	Monte Vista
<i>Can Water Be a Fuel?</i>	
Justin Wright	6th grade
science equipment/instrument	
Walsh Elementary School	Walsh
<i>A Wing and a Prayer</i>	
Severn Young	12th grade
science equipment/instrument	
Greeley West High School	Greeley
<i>Using Discharge in Freestyle to Swim the "Perfect Race"</i>	
Hunter Bostrom	12th grade
science equipment/instrument	
Brush High School	Brush
<i>Unmanned Aerial Vehicles and Pollination</i>	
Trent Martin	12th grade
science equipment/instrument	
Cherry Creek High School	Greenwood Village
<i>Hydrologic Eddy Current Applications</i>	

Lockheed Martin

Lockheed Martin Aerospace Award

Siddarth Ijju	8th grade
\$50	
Challenge School	Denver
<i>UAV-Emergency Response: Building an Autonomous Quadcopter for Emergency Response</i>	
Shepherd Kruse	11th grade
\$100	
Home School	Colorado Springs
<i>Spike Vectoring: Designing and Constructing a Maneuverable Aerospike Rocket Engine</i>	

National Centers for Environmental Information

NCEI Award of Scientific Achievement

Sophie Dellinger	8th grade
\$50 money order, certificate	
Summit Charter Middle School	Boulder
<i>Capturing Sulfur Dioxide: Chemically or Biologically?</i>	

National Defense Industrial Association

NDIA STEM Excellence Award

Rewa Raizada	6th grade
\$100	
STEM School and Academy	Highlands Ranch
<i>The Effect of Blade Number and Length on a Windmill</i>	
Sara Nehring	7th grade
\$100	
Monte Vista Middle School	Monte Vista
<i>Do the Shuffle</i>	

Jacelynn Trujillo	8th grade
\$100	
Corwin International Magnet School	Pueblo
<i>The Electric Hand</i>	
Justin Wright	6th grade
\$200	
Walsh Elementary School	Walsh
<i>A Wing and a Prayer</i>	
Breana Sinclair	7th grade
\$200	
Lamar Middle School	Lamar
<i>Geomagnetic Storms</i>	
Krithik Ramesh	8th grade
\$200	
Challenge School	Aurora
<i>Turbo Pulse: A Hybrid Pulsating Turbo Engine</i>	

National Renewable Energy Laboratory

NREL Energy Award

Hannah Zhang	10th grade
\$100	
Fairview High School	Boulder
<i>Reducing Building Energy Consumption by Personal Thermal Regulation</i>	

Rocky Mountain Association of Geologists

Excellence in Earth Science Award

Jenna Salvat	9th grade
cash award	
Coronado High School	Colorado Springs
<i>Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics</i>	
Nathaniel Miner & Drake Ludgate	9th grade
cash award	
Brush High School	Brush
<i>Deadly Stratification: The Role of Temperature on Limnic Eruptions</i>	
Logan Kilgroe	8th grade
cash award	
Turner Middle School	Berthoud
<i>Tsunami!</i>	

Rocky Mountain Water Environment Association

Water Research Award

Jaycee LaGow & Lena Noordik	8th grade
\$200	
La Veta Schools	La Veta
<i>Plastic Soup in Our Waterways</i>	
Emhyr Subramanian	8th grade
\$400	
Challenge School	Denver
<i>An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste</i>	
Casey Shaw	10th grade
\$200	
Liberty School	Joes
<i>P. denitrificans-Based Remediation Techniques vs. Levels of Nitrate & Oxygen in Freshwater Environs</i>	

Michelle Kummel 10th grade
\$400
Palmer High School Colorado Springs
*Modeling Transport in Creeks by Approximating Partial
Differential Equations*

SACNAS, Colorado State University Chapter
SACNAS CSU Rising Young Scientist Award

Victoria O'Hare 7th grade
\$50
Good Shepherd Catholic School Denver
*Walking on Thin Ice: The Impact of Common vs Alternative
De-Icers on Roadside Vegetation*

Sachi Rohilla 8th grade
\$50
The Classical Academy Colorado Springs
Dirty Is the New Way to Clean

Shaleese Romero 10th grade
Julian Salazar 11th grade
\$50
Central High School Pueblo
Bacteria Hysteria

Sergio Estrada 11th grade
\$50
Northridge High School Greeley
*The Worm Squirm: Identifying the Effects of Frequency on
Lubricus Terrestris's Environment*

Science Toy Magic

Physics Classroom Demonstration Award

Sam Christensen 8th grade
\$50
Fort Morgan Middle School Fort Morgan
Dancing Ferrofluid

Skyler Kranjcec 7th grade
\$100
Boulder Country Day School Boulder
Let's Solve Levitation with a Sine Wave Situation

Isaac Jordan 10th grade
\$50
Animas High School Durango
*A New Twist on Artificial Muscle: Using Supercoiled Polymer
Fibers to Power Robotics and Prosthetics*

Rena Michael 12th grade
\$100
Cherry Creek High School Greenwood Village
Door-Mant No More!

Society for Mining, Metallurgy, and Exploration
Colorado Section

Excellence in Mineral Science & Engineering Award

Sophie Dellinger 8th grade
\$100, plaque
Summit Charter Middle School Boulder
Capturing Sulfur Dioxide: Chemically or Biologically?

Sam Duarte 8th grade
\$200, plaque
Quest Academy Dacono
*The Perils of Practice: Noise Dosimetry, Pipers, Earplugs and
Noise Induced Hearing Loss?*

Liam Foster 10th grade
\$200, plaque
Animas High School Durango
*A Novel Early Warning and Monitoring System for Mine
Blowouts*

Wyeth Rossi 11th grade
\$400, plaque
Home School Durango
Lead Remediation: Applications of Algae in Fresh Water

Society of Manufacturing Engineers
Colorado Chapter 354

Andy Keller Memorial Award

Kevyn Kelso 11th grade
\$100, recognition by the local chapter
The Classical Academy Colorado Springs
*Building a High-Resolution Fused Deposition Modeling 3D
Printer Out of a Bed Frame*

Shepherd Kruse 11th grade
\$150, recognition by local chapter
Home School Colorado Springs
*Spike Vectoring: Designing and Constructing a Maneuverable
Aerospike Rocket Engine*

Jayden Edson & Jonathan Belcher 9th grade
\$200, recognition by local chapter
West Grand High School Kremmling
Engineering a Wind Rover Processed with Python

Society of Women Engineers
Rocky Mountain Section

SWE Award

Jacelynn Trujillo 8th grade
\$75
Corwin International Magnet School Pueblo
The Electric Hand

Teegan Oatley 8th grade
\$100
Flagstaff Academy Longmont
Hydroelectric Phone Charger

Julianna O'Clair & Michelle Ren 9th grade
\$75
Brush High School Brush
The Production of Methane Gas in Waste Biomass

Kylie Hunter 10th grade
\$100
Cherry Creek High School Greenwood Village
*Wastewater Sourceflow and Its Effect on Energy Output in a
Pressure Retarded Osmosis System*

Soil & Water Conservation Society
Colorado Chapter

Natural Resource Conservation Award

Michaela Ravenkamp 6th grade
\$100, certificate
Genoa-Hugo School Hugo
Crop SOS: Do Crops Create Micro-climates?

Cassidy Plane 11th grade
\$100, certificate
Alamosa High School Alamosa
Is a Forester's Trash a Farmer's Treasure?

SPIE-the international society for optics and photonics

SPIE Optics and Photonics Award

Tarra Miller	6th grade
\$50	
Genoa-Hugo School	Hugo
<i>Does Different Eye Colors Affect the Way Someone Sees in the Dim Light</i>	
Camille Holland	7th grade
\$100	
Mancos Middle School	Mancos
<i>Laser Jell-O Reflection/Refraction</i>	
William Dienstfrey	8th grade
\$150	
Summit Charter Middle School	Boulder
<i>Optical Illusions: Contrast Induced Asynchrony</i>	
Matthew Radzihovsky	12th grade
\$100	
Boulder High School	Boulder
<i>Buffer Gas Cooling in Molecular Spectroscopy</i>	
Matthew Hileman	12th grade
\$150	
The Classical Academy, College	Colorado Springs
<i>Reflected Laser Communications for Small Satellites</i>	
Jaden Hoechstetter	10th grade
\$250	
Fairview High School	Boulder
<i>Modulation of Laser Beam Using a Digital Micromirror Device</i>	

The Aquaponic Source

Innovation in Aquaponics Award

Maison Echols	7th grade
Aquaponics aquaponic growing system (\$150 value)	
Cortez Middle School	Cortez
<i>Aquaponics vs. Soil</i>	

The Inventor's Roundtable

Inventors' Roundtable Award

Leighton Burt	11th grade
\$100, free patent search (valued at \$400)	
Sargent Jr/Sr High School	Monte Vista
<i>Life Saving Locating: Developing Autonomous Avalanche Rescue, Part 2</i>	

Trout Unlimited

TU River Conservation Award

Liam Foster	10th grade
\$75	
Animas High School	Durango
<i>A Novel Early Warning and Monitoring System for Mine Blowouts</i>	
Shannon Bland	11th grade
\$125	
Lamar High School	Lamar
<i>Stop That Flood Part (V)</i>	
Nathaniel Brim	7th grade
\$200	
The Classical Academy	Colorado Springs
<i>Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment</i>	

United States Department of Commerce

Award for Excellence in Science and Engineering

Matthew Hileman	12th grade
opportunity for summer employment with the Department of Commerce	
The Classical Academy, College	Colorado Springs
<i>Reflected Laser Communications for Small Satellites</i>	

United States Geological Survey

USGS Excellence in Geological or Water Research Award

Josef Perko	6th grade
reference book, mineral specimen	
Walt Clark Middle School	Loveland
<i>Effects of Sublimation of Dry Ice on Mars Geology</i>	
Kyle Fridberg	10th grade
reference book, mineral specimen	
Fairview High School	Boulder
<i>Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams</i>	

University of Colorado, Denver

Medical Scientist Training Program Award

Laura Clark	8th grade
\$50	
St. Columba Catholic School	Durango
<i>Human Microbiome: Medical Ecology and the Effect of Behavior on Human Microflora</i>	
Hari Sowrirajan	10th grade
\$50	
Cherry Creek High School	Greenwood Village
<i>Nanoparticle-Induced Alterations in Cellular Junctions and Possible Therapeutic Interventions</i>	

University of Northern Colorado

MAST Institute

Mathematics and Science Teaching Institute

Sara Nehring	7th grade
\$50	
Monte Vista Middle School	Monte Vista
<i>Do the Shuffle</i>	
Merritt Singley & Kami Sweenie	12th grade
\$50	
Brush High School	Brush
<i>A Toast to Murphy's Law</i>	

Vaughan Web Works, LLC

Glissmann Family Award for Best Use of Computer Program Development

Sara Nehring	7th grade
\$50	
Monte Vista Middle School	Monte Vista
<i>Do the Shuffle</i>	
Joyce Xu	11th grade
\$100	
Fairview High School	Boulder
<i>Predictive Modeling of Optimal Cancer Therapies</i>	

Wilkins Family

Young Entrepreneur's Award

Leighton Burt 11th grade
\$500
Sargent Jr/Sr High School Monte Vista
*Life Saving Locating: Developing Autonomous Avalanche
Rescue, Part 2*

Wojtaszek Family

Paul Wojtaszek Memorial Award

Eileen Xia 11th grade
\$200 (The winning team or individual is asked to send a letter of
appreciation to Mary Wojtaszek, the mother of Paul Wojtaszek.)
Cherry Creek High School Greenwood Village
*Mechanism for How PI3K p110a Isoform Inhibits CSR Through
AID Expression*

Women in Physics

Colorado State University Chapter

Promising Young Woman in Science Award

Skyler Kranjcec 7th grade
\$50
Boulder Country Day School Boulder
Let's Solve Levitation with a Sine Wave Situation

Yale Science & Engineering Association

Outstanding Achievement in Science & Engineering Award

Anurag Golla 11th grade
certificate
Fairview High School Boulder
*Actuated Controlled Motion of a Pulsatile Hydrogel with
Anisotropic Friction: A Novel Bio-Engineered Approach to
Medical Targeting*

Joyce Xu 11th grade
certificate
Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Zonta Club of Boulder County

Amelia Earhart Award

Amy Dang Nguyen & Katherine Tran 8th grade
\$100, certificate
DSST: College View Middle School Denver
*How Hot Is Too Hot? The Effect of Water Temperature on Fuel
Cell Car Performance*

Scholarships

Adams State University

Adams State University Scholarship

Patricia Todd 11th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Fairview High School Boulder
*Simulating Inbreeding Depression Probability in Devils Hole
Pupfish: A Proof of Concept Study*

Tyree Jones 9th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Walsh Jr/Sr High School Walsh
Rapid Recognition Recall

Obbrianna Blea 11th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Central High School Pueblo
Flaming Candy

Wyatt Wiening 10th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Trinidad High School Trinidad
Strength Exerted by Montmorillonite Clay

Alia Kraxberger 9th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Genoa-Hugo School Hugo
Open or Covered vs. Aerodynamics

Parker Randolph 9th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Monte Vista High School Monte Vista
*Polymer Enhanced Passive Cooling: Designing a Thin Film
Material to Remove Thermal Energy and Avert Incoming Solar
Radiation*

Cassidy Plane 11th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Alamosa High School Alamosa
Is a Forester's Trash a Farmer's Treasure?

Deyanira Flores 12th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Brush High School Brush
Happy Birthday to You . . . and You . . . and You

Eileen Xia 11th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Cherry Creek High School Greenwood Village
*Mechanism for How PI3K p110a Isoform Inhibits CSR Through
AID Expression*

Kaitlyn Carson 11th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Windsor High School Windsor
Farm Fresh Eggs; A Backyard Bacteria Source

Adrienne Jones 10th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Trinidad High School Trinidad
Amateur Radio Astronomy

Mitchell Fosdick 11th grade
one-year resident tuition and fees scholarship (~value of \$9,000)
Fowler High School Fowler
Phase IV: Optimizing Algal Growth for Real World Application

Kaitlin Wells¹ 10th grade
Kaybree Keating² 9th grade
certificate, nomination to enter the SJWP state competition
¹Fort Morgan High School Fort Morgan
²Weldon Valley School

*Washing Away Vital Elements of Our Environment: A Bioassay
Investigation with Daphnia and Detergents*

Colorado College

Colorado College, Summer Session Merit Scholarship

Patricia Todd 11th grade
\$500 merit scholarship to attend Colorado College summer 2016
as pre-college students
Fairview High School Boulder
*Simulating Inbreeding Depression Probability in Devils Hole
Pupfish: A Proof of Concept Study*

Benjamin Morris 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
*The Extent and Severity of the Impostor Phenomenon Amongst
 College Prep, AP, and IB Students*

Avi Swartz 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Cherry Creek High School Greenwood Village
*Quantifying Spliceosomal Components Using Heavy Labeled
 Peptide Concatemers*

Michelle Kummel 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Palmer High School Colorado Springs
*Modeling Transport in Creeks by Approximating Partial
 Differential Equations*

Trevor Jordan 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Animas High School Durango
A Wing of the Future: Part III

Jayden Edson & Jonathan Belcher 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 West Grand High School Kremmling
Engineering a Wind Rover Processed with Python

Kyle Fridberg 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
*Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal
 Biomass in Colorado Streams*

Joyce Xu 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Isani Singh 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Cherry Creek High School Greenwood Village
Studying the Effects of a Missing X Chromosome on the Liver

Rebecca Bloomfield 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Palmer High School Colorado Springs
*GASP!: Growth Advantage in Stationary Phase in *Acinetobacter
 baylyi**

Amanda Li 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
*Determining Protein Unfolding Times Through Analysis of Single
 Molecule Force Spectroscopy Data*

Ana Mayordomo 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Cherry Creek High School Greenwood Village
*Effects of Phosphorus and Nitrogen Levels in Soil on the Growth
 of Grass Under Drought Conditions*

Riley Meisner 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Sterling High School Sterling
*The Effects of Fluctuating Barometric Pressure on Labor
 Induction in Pregnant Ewes*

Amber Michel 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Monte Vista High School Monte Vista
I Guess That's Why They Call It the Blues

Kathryn Lawrence & Katherine Younglove 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
*The Effect of Carbon on Iron Nickle Bimetallic Nanoparticle
 Degradation of Orange G*

Jenna Salvat 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Coronado High School Colorado Springs
*Sediment Injectites in Fault Zone Areas: An Investigation of
 Sedimentological Characteristics*

Hannah Zhang 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
*Reducing Building Energy Consumption by Personal Thermal
 Regulation*

Shepherd Kruse 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Home School Colorado Springs
*Spike Vectoring: Designing and Constructing a Maneuverable
 Aerospike Rocket Engine*

Kylie Hunter 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Cherry Creek High School Greenwood Village
*Wastewater Sourceflow and Its Effect on Energy Output in a
 Pressure Retarded Osmosis System*

Andrea Lin 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
*A Genetic Algorithm Based Approach to Optimize Sound
 Externalization*

Hari Sowrirajan 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Cherry Creek High School Greenwood Village
*Nanoparticle-Induced Alterations in Cellular Junctions and
 Possible Therapeutic Interventions*

Katelynn Salmon 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Palmer Ridge High School Monument
Biodetoxification Spectrum of Symbiotaphrina Kochii on Carcinogens Found in Cigarette Smoke

Matthew Radzihovsky 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Boulder High School Boulder
Buffer Gas Cooling in Molecular Spectroscopy

Sophia Niccoli 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Liberty School Joes
Storage Wars: The Effect of Storage Conditions on Feeds

Sydney Fischer 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Boulder High School Boulder
The Expectations and Misconceptions of Brilliance: Gender Disparities in STEM

Sirisha Gudavalli 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
Assembly of the CDK8 Kinase Module

Elyssa Hofgard 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
A Historical Analysis of the Current California Drought

Sophia Markuson DiPrince 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Central High School Pueblo
Anaerobic Digestion of Used Coffee Grounds to Generate Electricity

Zack Berohn, Ethan Stansbury & Zach Stockbauer 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Monarch High School Louisville
Geometric Optimization of Rocker Design in Performance Vehicle Suspension

Josephina Hoskins 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
Effect of Advancing Springs on Population Fluctuations of Migrant Cayuga Lake Warblers (Parulidae)

Molly Nehring 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Monte Vista High School Monte Vista
Python Cubed

Stephanie Zhang 10th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Fairview High School Boulder
DNA Packing and Diseases: Developing a Pipeline to Analyze Data Collected from ATAC-sequence

Eric Sun 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Pueblo West High School Pueblo West
Computational Analysis of Stress Responses in Saccharomyces cerevisiae

Severn Young 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Greeley West High School Greeley
Using Discharge in Freestyle to Swim the "Perfect Race"

Kit Bellefeuille 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Limon Schools Limon
Glomus spp. and Azospirillum brasilense Inoculation of Triticum aestivum and Medicago sativa

Sydney Roth 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Liberty School Joes
The Color of Emotion

Tara Mensch & Nicholas Finan 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Peak to Peak Charter School Lafayette
Sun Grown Polymers Using Benchtop Organocatalyzed Atom Transfer Radical Polymerization

Nathaniel Miner & Drake Ludgate 9th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Brush High School Brush
Deadly Stratification: The Role of Temperature on Limnic Eruptions

Trent Martin 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Cherry Creek High School Greenwood Village
Hydrologic Eddy Current Applications

Matthew Hileman 12th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 The Classical Academy, College Colorado Springs
Reflected Laser Communications for Small Satellites

Wyeth Rossi 11th grade
 \$500 merit scholarship to attend Colorado College summer 2016
 as pre-college students
 Home School Durango
Lead Remediation: Applications of Algae in Fresh Water

Tyler Giallanza 11th grade
\$500 merit scholarship to attend Colorado College summer 2016
as pre-college students
Cherry Creek High School Greenwood Village
*Novel Applications of Stochastic Global Optimization Algorithms
to the Shortest Common Superstring Problem*

Laura Fleming 12th grade
\$500 merit scholarship to attend Colorado College summer 2016
as pre-college students
Fairview High School Boulder
*Valvular Interstitial Cell Activation in Response to
Pro-Inflammatory Cytokine Treatment*

Kaitlyn Carson 11th grade
\$500 merit scholarship to attend Colorado College summer 2016
as pre-college students
Windsor High School Windsor
Farm Fresh Eggs; A Backyard Bacteria Source

James Berndt & Kyle Berndt 12th grade
\$500 merit scholarship to attend Colorado College summer 2016
as pre-college students
Limon Schools Limon
Quantum Levitation: The Future?

Tyson Lichty 9th grade
\$500 merit scholarship to attend Colorado College summer 2016
as pre-college students
Liberty School Joes
*SNS-244 vs. Captan The Battle That Kills: Possible Prevention of
Aspergillus flavus in Seed Storage*

Colorado School of Mines

Colorado School of Mines Scholarship

Christoph Cikraji 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Durango High School Durango
*Applications of Magnetic Fields for Induction of Artificial
Gravity*

Joyce Xu 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Wyeth Rossi 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Home School Durango
Lead Remediation: Applications of Algae in Fresh Water

Katie Fromm 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Greeley West High School Greeley
The Effect of Rocker Ratio on Calculated vs. Experimental Lift

Leighton Burt 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Sargent Jr/Sr High School Monte Vista
*Life Saving Locating: Developing Autonomous Avalanche
Rescue, Part 2*

Anurag Golla 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Fairview High School Boulder
*Actuated Controlled Motion of a Pulsatile Hydrogel with
Anisotropic Friction: A Novel Bio-Engineered Approach to
Medical Targeting*

Sirisha Gudavalli 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
Fairview High School Boulder
Assembly of the CDK8 Kinase Module

Kevyn Kelso 11th grade
\$1,000 CMS scholarship renewable for up to 3 additional years
for use towards an undergraduate degree
The Classical Academy Colorado Springs
*Building a High-Resolution Fused Deposition Modeling 3D
Printer Out of a Bed Frame*

Colorado State University

College of Natural Sciences

CSU, College of Natural Sciences Scholarship

Isani Singh 10th grade
\$1,000 scholarship to attend CSU, renewable for up to 3
additional semesters

Cherry Creek High School Greenwood Village
Studying the Effects of a Missing X Chromosome on the Liver

Joyce Xu 11th grade
\$1,000 scholarship to attend CSU, renewable for up to 3
additional semesters

Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Rebecca Bloomfield 11th grade
\$1,000 scholarship to attend CSU, renewable for up to 3
additional semesters

Palmer High School Colorado Springs
GASP!: Growth Advantage in Stationary Phase in

Acinetobacter baylyi

Trevor Jordan 12th grade
\$1,000 scholarship to attend CSU, renewable for up to 3
additional semesters

Animas High School Durango
A Wing of the Future: Part III

Colorado State University, Fort Collins

Colorado State University, Fort Collins Scholarship

Patricia Todd 11th grade
\$1,000 scholarship to attend CSU, renewable for up to 3
additional semesters

Fairview High School Boulder
*Simulating Inbreeding Depression Probability in Devils Hole
Pupfish: A Proof of Concept Study*

Benjamin Morris 12th grade
\$1,000 scholarship to attend CSU, renewable for up to 3
additional semesters

Fairview High School Boulder
*The Extent and Severity of the Impostor Phenomenon Amongst
College Prep, AP, and IB Students*

Avi Swartz 11th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Cherry Creek High School Greenwood Village
Quantifying Spliceosomal Components Using Heavy Labeled Peptide Concatemers

Michelle Kummel 10th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Palmer High School Colorado Springs
Modeling Transport in Creeks by Approximating Partial Differential Equations

Jayden Edson & Jonathan Belcher 9th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 West Grand High School Kremmling
Engineering a Wind Rover Processed with Python

Kyle Fridberg 10th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Fairview High School Boulder
Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams

Joyce Xu 11th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Isani Singh 10th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Cherry Creek High School Greenwood Village
Studying the Effects of a Missing X Chromosome on the Liver

Rebecca Bloomfield 11th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Palmer High School Colorado Springs
GASP!: Growth Advantage in Stationary Phase in Acinetobacter baylyi

Amanda Li 10th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Fairview High School Boulder
Determining Protein Unfolding Times Through Analysis of Single Molecule Force Spectroscopy Data

Ana Mayordomo 10th grade
 \$1,000 scholarship to attend CSU, renewable for up to 3 additional semesters
 Cherry Creek High School Greenwood Village
Effects of Phosphorus and Nitrogen Levels in Soil on the Growth of Grass Under Drought Conditions

Colorado State University, Pueblo

Colorado State University, Pueblo Scholarship

Anurag Golla 11th grade
 \$1,000 scholarship to attend Colorado State University, Pueblo
 Fairview High School Boulder
Actuated Controlled Motion of a Pulsatile Hydrogel with Anisotropic Friction: A Novel Bio-Engineered Approach to Medical Targeting

University of Colorado, Boulder College of Engineering and Applied Science Scholarships

Kimberly Blough 8th grade
 4-year \$500 conditional engineering scholarship
 Turner Middle School Berthoud
Breaking Bridges

Molly Nehring 9th grade
 4-year \$500 conditional engineering scholarship
 Monte Vista High School Monte Vista
Python Cubed

Michelle Kummel 10th grade
 4-year \$500 conditional engineering scholarship
 Palmer High School Colorado Springs
Modeling Transport in Creeks by Approximating Partial Differential Equations

Joyce Xu 11th grade
 4-year \$1,000 conditional engineering scholarship
 Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

Christoph Cikraji 11th grade
 4-year \$1,000 conditional engineering scholarship
 Durango High School Durango
Applications of Magnetic Fields for Induction of Artificial Gravity

Anurag Golla 11th grade
 4-year \$1,000 conditional engineering scholarship
 Fairview High School Boulder
Actuated Controlled Motion of a Pulsatile Hydrogel with Anisotropic Friction: A Novel Bio-Engineered Approach to Medical Targeting

Elyssa Hofgard 11th grade
 4-year \$1,000 conditional engineering scholarship
 Fairview High School Boulder
A Historical Analysis of the Current California Drought

Sergio Estrada 11th grade
 4-year \$1,000 conditional engineering scholarship
 Northridge High School Greeley
The Worm Squirm: Identifying the Effects of Frequency on Lubricus Terrestri's Environment

Intel

Ryan Patterson Scholarship

Trevor Jordan 12th grade
 \$2,000 nonrenewable scholarship
 Animas High School Durango
A Wing of the Future, Part III

SSP

American Meteorological Society

Outstanding Achievement in Atmospheric Sciences Award

Kael Mattics 6th grade
 certificate
 Olathe Middle School Olathe
Mathematics of a Tsunami Wave

Jacob Isley 8th grade
 certificate
 Turner Middle School Berthoud
Measuring Radiation From the Sun

Elyssa Hofgard 11th grade
 certificate
 Fairview High School Boulder
A Historical Analysis of the Current California Drought

Adrienne Jones 10th grade
 certificate
 Trinidad High School Trinidad
Amateur Radio Astronomy

American Psychological Association

Outstanding Achievement in Psychological Sciences Award

Evelyn Bodoni 8th grade
 certificate
 Challenge School Denver
The Lure of Distraction

Benjamin Morris 12th grade
 certificate
 Fairview High School Boulder
The Extent and Severity of the Impostor Phenomenon Amongst College Prep, AP, and IB Students

Arizona State University

Rob & Melani Walton Sustainability Solutions Initiative Award

Michelle Kummel 10th grade
 certificate, nomination to enter the Rob & Melani Walton Sustainability Solutions Initiative Grand Prize (a trip to Arizona for the 2017 Sustainability Solutions Festival)
 Palmer High School Colorado Springs
Modeling Transport in Creeks by Approximating Partial Differential Equations

Hunter Bostrom 12th grade
 certificate, nomination to enter the Rob & Melani Walton Sustainability Solutions Initiative Grand Prize (a trip to Arizona for the 2017 Sustainability Solutions Festival)
 Brush High School Brush
Unmanned Aerial Vehicles and Pollination

Eric Bear 10th grade
 certificate, nomination to enter the Rob & Melani Walton Sustainability Solutions Initiative Grand Prize (a trip to Arizona for the 2017 Sustainability Solutions Festival)
 Colorado Academy Denver
Hybrid Water Treatment with Slow Biosand Filter and Solar-Powered Electrolysis Chlorine Producing Unit

Cassidy Plane 11th grade
 certificate, nomination to enter the Rob & Melani Walton Sustainability Solutions Initiative Grand Prize (a trip to Arizona for the 2017 Sustainability Solutions Festival)
 Alamosa High School Alamosa
Is a Forester's Trash a Farmer's Treasure?

ASM Materials Education Foundation

Outstanding Achievement in Materials Science Award

Nathaniel Brim 7th grade
 certificate
 The Classical Academy Colorado Springs
Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment

Associate for Women Geoscientists

Outstanding Achievement in Geosciences Award

Michelle Kummel 10th grade
 certificate
 Palmer High School Colorado Springs
Modeling Transport in Creeks by Approximating Partial Differential Equations

Outstanding Achievement in Geosciences Award

Charlotte Heeley 8th grade
 certificate
 Summit Charter Middle School Boulder
The Earth Moving the Waves

Broadcom

Broadcom MASTERS Nomination

Alex Roberts 7th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 Challenge School Denver
Inexpensive Food Alternative From Microalgae Waste

Jonathan Haerr 8th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 The Classical Academy Colorado Springs
Circumstantial Morality

Madeleine Nagle 8th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 Summit Charter Middle School Boulder
Cost and Effectiveness of Sunscreens

Charlotte Heeley 8th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 Summit Charter Middle School Boulder
The Earth Moving the Waves

Mark Bloomfield 8th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 Holmes Middle School Colorado Springs
The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer

Chase Cromwell 8th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 Lamar Middle School Lamar
Music on Demand

Sophie Dellinger 8th grade
 nomination to compete in the Broadcom MASTERS national competition (deadline to enter is June 15, 2016)
 Summit Charter Middle School Boulder
Capturing Sulfur Dioxide: Chemically or Biologically?

Anudeep Golla 8th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Southern Hills Middle School Boulder
*Seeking Predictability Trapped in the Midst of the Chaos of the
Mandelbrot Set*

Nathan Panzer 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
North Arvada Middle School Arvada
*The Effects of a Granulocyte-Colony Stimulating Factor on White
Blood Cells*

Alyssa Keirn 8th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Blevins Middle School Fort Collins
Solar Powered Decontaminator Testing

Adam Vagle 8th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Stanley British Primary School Denver
The Three Body Problem and the Search for Intelligent Life

Kathryn Kummel 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
North Middle School Colorado Springs
*All Spruced Up: The Causes and Consequences of Spruce
Invasion into Aspen Canopies*

Makenzy Dreher 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Frontier Academy Secondary School Greeley
*Butterflies: Hot & Cold - Study How Temperature Variations
Affect the Metamorphosis of Cynthia Vaness*

Evelyn Bodoni 8th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Challenge School Denver
The Lure of Distraction

Emhyr Subramanian 8th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Challenge School Denver
*An Attempt to Create a Hydrophobic, Biodegradable,
Super-Absorbent Polymer That Can Extract Waste*

Michaela Ravenkamp 6th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Genoa-Hugo School Hugo
Crop SOS: Do Crops Create Micro-climates?

Nicholas Huber 6th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
St. Columba Catholic School Durango
Hot or Not

Benjamin Wilson 8th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
The Classical Academy Colorado Springs
Aerostat Communication System

Nathaniel Brim 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
The Classical Academy Colorado Springs
*Effects of Zinc and Magnesium Dissolution in Cathodic
Protection Systems on the Environment*

Sara Nehring 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Monte Vista Middle School Monte Vista
Do the Shuffle

Georgia Mynatt 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Miller Middle School Durango
Does the Shirt on Your Back Stop the Sun's Attack?

Eliot Wright 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Miller Middle School Durango
*Proteomic Approach to UV/HNO₃ Deamination Mutagenesis in
Antibiotic-Resistant Monera*

Xander Duvall 6th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Banning Lewis Ranch Academy Colorado Springs
*How Does Atmosphere Affect the Amount of Subatomic
Particles?*

Logan DeGraaf 7th grade
nomination to compete in the Broadcom MASTERS national
competition (deadline to enter is June 15, 2016)
Evangelical Christian Academy Colorado Springs
Venus Fly Trap Response Time

Intel Corporation

Intel Excellence in Computer Science Award

Molly Nehring 9th grade
\$200 (to be mailed), certificate
Monte Vista High School Monte Vista
Python Cubed

Tyler Giallanza 11th grade
\$200 (to be mailed), certificate
Cherry Creek High School Greenwood Village
*Novel Applications of Stochastic Global Optimization Algorithms
to the Shortest Common Superstring Problem*

Mu Alpha Theta

Outstanding Achievement in Mathematics

Deyanira Flores 12th grade
certificate
Brush High School Brush
Happy Birthday to You . . . and You . . . and You

Joyce Xu 11th grade
certificate
Fairview High School Boulder
Predictive Modeling of Optimal Cancer Therapies

NASA

Outstanding Achievement in Earth Systems Science Award

Michaela Ravenkamp 6th grade
certificate
Genoa-Hugo School Hugo
Crop SOS: Do Crops Create Micro-climates?

Jenna Salvat 9th grade
certificate
Coronado High School Colorado Springs
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics

National Oceanic & Atmospheric Administration *Taking the Pulse of the Planet Award*

Ellie Clark 6th grade
certificate, medal
St. Columba Catholic School Durango
Eco-Friendly Parking: Pervious, Permeable, Porous Paving Materials

Elyssa Hofgard 11th grade
certificate, medal
Fairview High School Boulder
A Historical Analysis of the Current California Drought

Ricoh

Ricoh Sustainability Development Award

Nathaniel Brim 7th grade
certificate
The Classical Academy Colorado Springs
Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment

Casey Shaw 10th grade
certificate
Liberty School Joes
P. denitrificans-Based Remediation Techniques vs. Levels of Nitrate & Oxygen in Freshwater Environs

Society for In Vitro Biology

Outstanding Achievement in In Vitro Biology Award

Samyuktha Senthikumar 11th grade
certificate
Douglas County High School Castle Rock
Regulation of PGC-11 by LSD1 and Its Implications for FXR Transactivation in the Liver

Jessalyn Bay-Voit 11th grade
certificate
Mancos High School Mancos
The Effects of Giardia on the Ecosystem of a Farm

United States Metric Association

Outstanding Achievement in the Use of the International System Award

Sophie Dellinger 8th grade
certificate
Summit Charter Middle School Boulder
Capturing Sulfur Dioxide: Chemically or Biologically?

Rebecca Bloomfield 11th grade
certificate
Palmer High School Colorado Springs
GASP!: Growth Advantage in Stationary Phase in Acinetobacter baylyi

Water Environment Federation

Stokholm Junior Water Prize

Michelle Kummel 10th grade
certificate, nomination to enter the SJWP state competition
Palmer High School Colorado Springs
Modeling Transport in Creeks by Approximating Partial Differential Equations

Casey Shaw 10th grade
certificate, nomination to enter the SJWP state competition
Liberty School Joes
P. denitrificans-Based Remediation Techniques vs. Levels of Nitrate & Oxygen in Freshwater Environs

Kaitlin Wells¹ 10th grade
Kaybree Keating² 9th grade
certificate, nomination to enter the SJWP state competition
¹Fort Morgan High School Fort Morgan
²Weldon Valley School
Washing Away Vital Elements of Our Environment: A Bioassay Investigation with Daphnia and Detergents

Trent Martin 12th grade
certificate, nomination to enter the SJWP state competition
Cherry Creek High School Greenwood Village
Hydrologic Eddy Current Applications

Teacher

Lockheed Martin

CSEF Teacher of the Year Award

Linda Niccoli
\$3,000, plaque
Liberty School Joes

SparkFun Electronics

SparkFun's Thank You to Educators Award

Linda Niccoli
SparkFun Inventor's kit (valued at \$99)
Liberty School Joes

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