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](http://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

<table>
<thead>
<tr>
<th>Category</th>
<th>Project Details</th>
</tr>
</thead>
</table>
| 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 | Alyssa Keirn 8th grade  
Solar Powered Decontaminator Testing  
Blevins Middle School Fort Collins |
| Third Place | Jonathan Haerr 8th grade  
Circumstantial Morality  
The Classical Academy Colorado Springs |

### Senior Division Best CSEF Project

<table>
<thead>
<tr>
<th>Category</th>
<th>Project Details</th>
</tr>
</thead>
</table>
| 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 | Joyce Xu 11th grade  
Predictive Modeling of Optimal Cancer Therapies  
Fairview High School Boulder |
| Third Place | Rebecca Bloomfield 11th grade  
GASP!: Growth Advantage in Stationary Phase in Acinetobacter baylyi  
Palmer High School Colorado Springs |

### Junior Division Animal Sciences

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

### Senior Division Animal Sciences

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

### Junior Division Behavioral & Social Sciences

<table>
<thead>
<tr>
<th>Category</th>
<th>Project Details</th>
</tr>
</thead>
</table>
| First Place | Jonathan Haerr 8th grade  
Circumstantial Morality  
The Classical Academy Colorado Springs |
| Second Place | Evelyn Bodoni 8th grade  
The Lure of Distraction  
Challenge School Denver |
| Third Place | William Dienstfrey 8th grade  
Optical Illusions: Contrast Induced Asynchrony  
Summit Charter Middle School Boulder |

### Senior Division Behavioral & Social Sciences

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

<table>
<thead>
<tr>
<th>Fourth Place</th>
<th>Tara Mensch &amp; Nicholas Finan</th>
<th>12th grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Color of Emotion</td>
<td>Sun Grown Polymers Using Benchtop Organocatalyzed Atom Transfer Radical Polymerization</td>
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<tr>
<td>Liberty School Joes</td>
<td>Peak to Peak Charter School</td>
<td>Lafayette</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Aaliyah Garcia</td>
<td>9th grade</td>
</tr>
<tr>
<td>Cassandra Blew 9th grade</td>
<td>Investigating Triggers of Sundowners Syndrome in Dementia Patients in an Institutional Setting</td>
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<tr>
<td>La Veta Schools</td>
<td>Wildland Firefighter Defense System</td>
<td>Center</td>
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### Junior Division Earth & Space Sciences

<table>
<thead>
<tr>
<th>Fourth Place</th>
<th>Nathaniel Miner &amp; Drake Ludgate</th>
<th>9th grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metals in Drinking Water</td>
<td>Drake Ludgate</td>
<td>9th grade</td>
</tr>
<tr>
<td>La Veta Schools</td>
<td>Deadly Stratification: The Role of Temperature on Limnic Eruptions</td>
<td></td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Kate Zerefos</td>
<td>6th grade</td>
</tr>
<tr>
<td>Tobias DiRito 6th grade</td>
<td>How Do Tsunamis Affect the Surrounding Area?</td>
<td>Monument</td>
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<tr>
<td>Bromley East Charter School</td>
<td>Effects of Sublimination of Dry Ice on Mars Geology</td>
<td></td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Josef Perko</td>
<td>6th grade</td>
</tr>
<tr>
<td>Maddie Plank 8th grade</td>
<td>Most Precious Blood Catholic School</td>
<td>Denver</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Cole Seger</td>
<td>8th grade</td>
</tr>
<tr>
<td>May the Force Be with You</td>
<td>Sargent Jr/Sr High School</td>
<td>Monte Vista</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Lillian Buck</td>
<td>8th grade</td>
</tr>
<tr>
<td>Sirisha Gudavalli 11th grade</td>
<td>Assembly of the CDK8 Kinase Module</td>
<td>Boulder</td>
</tr>
<tr>
<td>Fairview High School</td>
<td>Lillian Buck: The Effect of Mixing Metal Salts on Flame Color</td>
<td>Loveland</td>
</tr>
<tr>
<td>Senior Division Chemistry &amp; Biochemistry</td>
<td>Seniors</td>
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<table>
<thead>
<tr>
<th>Senior Division Chemistry &amp; Biochemistry</th>
<th>Senior Division Earth &amp; Space Sciences</th>
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</thead>
<tbody>
<tr>
<td>First Place</td>
<td>First Place</td>
</tr>
<tr>
<td>Madeleine Nagle 8th grade</td>
<td>Michelle Kummel 10th grade</td>
</tr>
<tr>
<td>Cost and Effectiveness of Sunscreens</td>
<td>Modeling Transport in Creeks by Approximating Partial Differential Equations</td>
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<tr>
<td>Summit Charter Middle School Boulder</td>
<td>Palmer High School Colorado Springs</td>
</tr>
<tr>
<td>Second Place</td>
<td>Second Place</td>
</tr>
<tr>
<td>Emhry Subramanian 8th grade</td>
<td>Jenna Salvat 9th grade</td>
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<td>An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste</td>
<td>Sediment Injecties in Fault Zone Areas: An Investigation of Sedimentological Characteristics</td>
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<td>Challenge School Denver</td>
<td>Coronado High School Colorado Springs</td>
</tr>
<tr>
<td>Third Place</td>
<td>Third Place</td>
</tr>
<tr>
<td>Owen Growney 6th grade</td>
<td>Elyssa Hofgard 11th grade</td>
</tr>
<tr>
<td>How Do You Like Your Eggs? Connect Charter School Pueblo</td>
<td>A Historical Analysis of the Current California Drought</td>
</tr>
<tr>
<td>Fourth Place</td>
<td>Fourth Place</td>
</tr>
<tr>
<td>Kaleb Andreatta &amp; Cavin McCay 7th grade</td>
<td>Nathaniel Miner &amp; Drake Ludgate</td>
</tr>
<tr>
<td>Metals in Drinking Water</td>
<td>Drake Ludgate 9th grade</td>
</tr>
<tr>
<td>La Veta Schools La Veta</td>
<td>Deadly Stratification: The Role of Temperature on Limnic Eruptions</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Honorable Mention</td>
</tr>
<tr>
<td>Tobias DiRito</td>
<td>Josef Perko</td>
</tr>
<tr>
<td>It's &quot;Super-Cool&quot;</td>
<td>6th grade</td>
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<td>Bromley East Charter School Brighton</td>
<td>herbal academy</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Honorable Mention</td>
</tr>
<tr>
<td>Maddie Plank</td>
<td>Kate Zerefos</td>
</tr>
<tr>
<td>How Lemon, Chamomile, Honey and Sea Salt Lighten Hair</td>
<td>Effects of Sublimination of Dry Ice on Mars Geology</td>
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<tr>
<td>Most Precious Blood Catholic School Denver</td>
<td>Walt Clark Middle School</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Honorable Mention</td>
</tr>
<tr>
<td>Cole Seger 8th grade</td>
<td>Josef Perko</td>
</tr>
<tr>
<td>May the Force Be with You Sargent Jr/Sr High School Monte Vista</td>
<td>Effects of Sublimination of Dry Ice on Mars Geology</td>
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<tr>
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<td>Honorable Mention</td>
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<tr>
<td>Lillian Buck</td>
<td>Kate Zerefos</td>
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<tr>
<td>The Effect of Mixing Metal Salts on Flame Color</td>
<td>Walt Clark Middle School</td>
</tr>
<tr>
<td>St. John the Evangelist Catholic School Loveland</td>
<td>verdant canyon</td>
</tr>
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<td>Senior Division Chemistry &amp; Biochemistry</td>
<td>Senior Division Earth &amp; Space Sciences</td>
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### Senior Division Chemistry & Biochemistry

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<tbody>
<tr>
<td>First Place</td>
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<tr>
<td>Avi Swartz 11th grade</td>
<td>Michelle Kummel 10th grade</td>
</tr>
<tr>
<td>Quantifying Spliceosomal Components Using Heavy Labeled Peptide Concatamers</td>
<td>Modeling Transport in Creeks by Approximating Partial Differential Equations</td>
</tr>
<tr>
<td>Cherry Creek High School Greenwood Village</td>
<td>Palmer High School Colorado Springs</td>
</tr>
<tr>
<td>Second Place</td>
<td>Second Place</td>
</tr>
<tr>
<td>Kathryn Lawrence &amp; Katherine Younglove 12th grade</td>
<td>Jenna Salvat 9th grade</td>
</tr>
<tr>
<td>Fairview High School Boulder</td>
<td>Coronado High School Colorado Springs</td>
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<tr>
<td>Third Place</td>
<td>Third Place</td>
</tr>
<tr>
<td>Sirisha Gudavalli 11th grade</td>
<td>Elyssa Hofgard 11th grade</td>
</tr>
<tr>
<td>Assembly of the CDK8 Kinase Module</td>
<td>A Historical Analysis of the Current California Drought</td>
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<td>Fairview High School Boulder</td>
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<td>Fourth Place</td>
<td>Fourth Place</td>
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<tr>
<td>Nathaniel Miner &amp; Drake Ludgate</td>
<td>Nathaniel Miner &amp; Drake Ludgate</td>
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<tr>
<td>Drake Ludgate 9th grade</td>
<td>Drake Ludgate 9th grade</td>
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<tr>
<td>Deadly Stratification: The Role of Temperature on Limnic Eruptions</td>
<td>Brush High School Brush</td>
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<td>brush High School</td>
<td>Brush High School</td>
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</tbody>
</table>

### Honorable Mention

- Tara Mensch & Nicholas Finan
- Aaliyah Garcia
- Melissa Perry
- Cole Seger
- Nathaniel Miner & Drake Ludgate
- Elyssa Hofgard
- freckles
- This is not possible
- waters...
### Junior Division Energy

<table>
<thead>
<tr>
<th>Place</th>
<th>Name</th>
<th>Grade</th>
<th>School</th>
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<tbody>
<tr>
<td>First</td>
<td>Mark Bloomfield</td>
<td>8th</td>
<td>Holmes Middle School</td>
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<tr>
<td></td>
<td><em>The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer</em></td>
<td></td>
<td>Colorado Springs</td>
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<tr>
<td>Second</td>
<td>Nicholas Huber</td>
<td>6th</td>
<td>St. Columba Catholic School</td>
</tr>
<tr>
<td></td>
<td><em>Hot or Not</em></td>
<td></td>
<td>Durango</td>
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<tr>
<td>Third</td>
<td>Chelsea Padilla</td>
<td>8th</td>
<td>Challenge School</td>
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<tr>
<td></td>
<td><em>Murky Electricity</em></td>
<td></td>
<td>Denver</td>
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<tr>
<td>Fourth</td>
<td>Tyler Higgins</td>
<td>7th</td>
<td>Genoa-Hugo School</td>
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<td><em>Country Cooked Fuel: Efficiency Comparison of Biodiesel and Diesel</em></td>
<td></td>
<td>Hugo</td>
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<td></td>
<td>Bailey Freeman</td>
<td>7th</td>
<td>Miller Middle School</td>
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<td></td>
<td><em>Capture That Ray</em></td>
<td></td>
<td>Durango</td>
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<td></td>
<td>Tho Nguyen</td>
<td>8th</td>
<td>DSST: College View Middle School</td>
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<td><em>The Energy of Algae</em></td>
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<td>Denver</td>
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<td></td>
<td>Ashley Gilmore</td>
<td>7th</td>
<td>Lamar Middle School</td>
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<tr>
<td></td>
<td><em>What's in My Ear?</em></td>
<td></td>
<td>Lamar</td>
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<tr>
<td></td>
<td>Sage Higbee</td>
<td>7th</td>
<td>The Classical Academy</td>
</tr>
<tr>
<td></td>
<td><em>Making Biking Accessible to the Visually Impaired</em></td>
<td></td>
<td>Aurora</td>
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### Senior Division Energy

<table>
<thead>
<tr>
<th>Place</th>
<th>Name</th>
<th>Grade</th>
<th>School</th>
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<tbody>
<tr>
<td>First</td>
<td>Trevor Jordan</td>
<td>12th</td>
<td>Animas High School</td>
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<tr>
<td></td>
<td><em>A Wing of the Future: Part III</em></td>
<td></td>
<td>Durango</td>
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<tr>
<td>Second</td>
<td>Hannah Zhang</td>
<td>10th</td>
<td>Fairview High School</td>
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<td><em>Reducing Building Energy Consumption by Personal Thermal Regulation</em></td>
<td></td>
<td>Boulder</td>
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<tr>
<td>Third</td>
<td>Sophia Markuson DiPrince</td>
<td>9th</td>
<td>Central High School</td>
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<td></td>
<td><em>Anaerobic Digestion of Used Coffee Grounds to Generate Electricity</em></td>
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<td>Pueblo</td>
</tr>
<tr>
<td>Fourth</td>
<td>Trent Martin</td>
<td>12th</td>
<td>Cherry Creek High School</td>
</tr>
<tr>
<td></td>
<td><em>Hydrologic Eddy Current Applications</em></td>
<td></td>
<td>Greenwood Village</td>
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<tr>
<td>Honorable Mention</td>
<td>Joseph Weisensee</td>
<td>12th</td>
<td>Limon Schools</td>
</tr>
<tr>
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<td><em>Berry Good Solar Energy: Dye Sensitized Solar Cells</em></td>
<td></td>
<td>Limon</td>
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### Junior Division Engineering

<table>
<thead>
<tr>
<th>Place</th>
<th>Name</th>
<th>Grade</th>
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<tbody>
<tr>
<td>First</td>
<td>Chase Cromwell</td>
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<td>Lamar Middle School</td>
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<td><em>Music on Demand</em></td>
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<td>Lamar</td>
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<tr>
<td>Second</td>
<td>Benjamin Wilson</td>
<td>8th</td>
<td>The Classical Academy</td>
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<td><em>Aerostat Communication System</em></td>
<td></td>
<td>Colorado Springs</td>
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<tr>
<td>Third</td>
<td>Ian Curd</td>
<td>7th</td>
<td>Sanavi Pillai</td>
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<td></td>
<td><em>Wireless Electricity</em></td>
<td></td>
<td>Mountain Ridge Middle School</td>
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<td>Challenge School</td>
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<td>Colorado Springs</td>
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<tr>
<td>Honorable Mention</td>
<td>Amy Dang Nguyen &amp; Katherine Tran</td>
<td>8th</td>
<td>DSST: College View Middle School</td>
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<td><em>How Hot Is Too Hot? The Effect of Water Temperature on Fuel Cell Car Performance</em></td>
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<td>Denver</td>
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<td>Honorable Mention</td>
<td>Sarah Bian</td>
<td>7th</td>
<td>Challenge School</td>
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<td></td>
<td><em>Quaking Skylines</em></td>
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<td>Honorable Mention</td>
<td>Krithik Ramesh</td>
<td>8th</td>
<td>Challenge School</td>
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<td><em>Turbo Pulse: A Hybrid Pulsating Turbo Engine</em></td>
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<td>Ashley Gilmore</td>
<td>7th</td>
<td>Lamar Middle School</td>
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<tr>
<td></td>
<td><em>What's in My Ear?</em></td>
<td></td>
<td>Lamar</td>
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<tr>
<td>Honorable Mention</td>
<td>Johnathan Pollard</td>
<td>8th</td>
<td>The Classical Academy</td>
</tr>
<tr>
<td></td>
<td><em>Making Biking Accessible to the Visually Impaired</em></td>
<td></td>
<td>Colorado Springs</td>
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### Senior Division Engineering

<table>
<thead>
<tr>
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<th>Name</th>
<th>Grade</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>First</td>
<td>Jayden Edson &amp; Jonathan Belcher</td>
<td>9th</td>
<td>West Grand High School</td>
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<tr>
<td></td>
<td><em>Engineering a Wind Rover Processed with Python</em></td>
<td></td>
<td>Kremmling</td>
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<tr>
<td>Second</td>
<td>Shepherd Kruse</td>
<td>11th</td>
<td>Home School</td>
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<tr>
<td></td>
<td><em>Spike Vectoring: Designing and Constructing a Maneuverable Aerospike Rocket Engine</em></td>
<td></td>
<td>Colorado Springs</td>
</tr>
<tr>
<td>Third</td>
<td>Zack Berohn, Ethan Stansbury &amp; Zach Stockbauer</td>
<td>12th</td>
<td>Monarch High School</td>
</tr>
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<td></td>
<td><em>Geometric Optimization of Rocker Design in Performance Vehicle Suspension</em></td>
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<td>Louisville</td>
</tr>
<tr>
<td>Fourth Place</td>
<td>Matthew Hileman</td>
<td>12th grade</td>
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<tr>
<td><strong>Reflected Laser Communications for Small Satellites</strong></td>
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<td>The Classical Academy, College Pathways Colorado Springs</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Leighton Burt</td>
<td>11th grade</td>
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<td><strong>Life Saving Locating: Developing Autonomous Avalanche Rescue, Part 2</strong></td>
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<td>Sargent Jr/Sr High School Monte Vista</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Anurag Golla</td>
<td>11th grade</td>
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<tr>
<td><strong>Actuated Controlled Motion of a Pulsatile Hydrogel with Anisotropic Friction: A Novel Bio-Engineered Approach to Medical Targeting</strong></td>
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<td>Parker Randolph</td>
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<td><strong>Polymer Enhanced Passive Cooling: Designing a Thin Film Material to Remove Thermal Energy and Avert Incoming Solar Radiation</strong></td>
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<td>Monte Vista High School Monte Vista</td>
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<td>Isaac Jordan</td>
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<tr>
<td><strong>A New Twist on Artificial Muscle: Using Supercoiled Polymer Fibers to Power Robotics and Prosthetics</strong></td>
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<td>Animas High School Durango</td>
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### Junior Division Environmental Sciences

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<tr>
<th>First Place</th>
<th>Sophie Dellinger</th>
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<tr>
<td><strong>Capturing Sulfur Dioxide: Chemically or Biologically?</strong></td>
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<td>Summit Charter Middle School Boulder</td>
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<tr>
<td><strong>Second Place</strong></td>
<td>Nathaniel Brim</td>
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<tr>
<td><strong>Effects of Zinc and Magnesium Dissolution in Cathodic Protection Systems on the Environment</strong></td>
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<td>The Classical Academy Colorado Springs</td>
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<td><strong>Third Place</strong></td>
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<tr>
<td><strong>Clean Green Buffer Machine: A Study of How Phytoplankton Fight Climate Change</strong></td>
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<td>Stanley British Primary School Denver</td>
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<td><strong>Saving the Slope: How Does the Orientation of Contour-felled Logs Affect Erosion on a Barren Slope?</strong></td>
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<tr>
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<td><strong>Tsunami!</strong></td>
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<td><strong>A Worm’s Eye View on Pesticides</strong></td>
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<td><strong>How’s the Air Out There?</strong></td>
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<td><strong>Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams</strong></td>
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<td><strong>Wastewater Sourceflow and Its Effect on Energy Output in a Pressure Retarded Osmosis System</strong></td>
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<td>Josephina Hoskins</td>
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<td><strong>Effect of Advancing Springs on Population Fluctuations of Migrant Cayuga Lake Warblers (Parulidae)</strong></td>
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<td>Wyeth Rossi</td>
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<td><strong>Lead Remediation: Applications of Algae in Fresh Water</strong></td>
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### Junior Division Mathematics & Computer Sciences

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<th>First Place</th>
<th>Anudeep Golla</th>
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<td><strong>Seeking Predictability Trapped in the Midst of the Chaos of the Mandelbrot Set</strong></td>
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<td>Sara Nehring</td>
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<td><strong>Do the Shuffle</strong></td>
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<td>Daniel Zamoshchin</td>
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<td><strong>Near Field Communication for Digital and Physical Two Factor Authentication</strong></td>
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<td>Kael Mattics</td>
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<th>Joyce Xu</th>
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<td><strong>Predictive Modeling of Optimal Cancer Therapies</strong></td>
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<td><strong>A Genetic Algorithm Based Approach to Optimize Sound Externalization</strong></td>
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<td>Molly Nehring</td>
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<td><em>Python Cubed</em></td>
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<td>Tyler Gallanza</td>
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<tr>
<td><em>Novel Applications of Stochastic Global Optimization Algorithms to the Shortest Common Superstring Problem</em></td>
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<td>Nathan Panzer</td>
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<td><em>The Effects of a Granulocyte-Colony Stimulating Factor on White Blood Cells</em></td>
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<td>Georgia Mynatt</td>
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<td><em>Does the Shirt on Your Back Stop the Sun’s Attack?</em></td>
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<td><em>The Perils of Practice: Noise Dosimetry, Pipers, Earplugs and Noise Induced Hearing Loss?</em></td>
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<td><em>Does Going Up Bring You Down? Effects of Altitude on Lactate Threshold in Unacclimatized Individuals</em></td>
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<td><em>Human Microbiome: Medical Ecology and the Effect of Behavior on Human Microflora</em></td>
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<tr>
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<td>St. Columba Catholic School</td>
</tr>
</tbody>
</table>

1. Dolores Huerta Preparatory High School
2. South High School
**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_

**Pioneers of Science**

**Ada Lovelace Award**
Waytty 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  
_Lhydroelectrical Phone Charger_

**Elizabeth Blackwell Award**
Sam Duarte  
8th grade  
$50, certificate, poster of pioneer scientist  
Quest Academy  
_A 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  
_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**
Kaydeed 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  
$50, certificate, poster of pioneer scientist  
St. Columba Catholic School  
**Healthier Water: A Study of Water Filtration Using Natural Materials**

### Sigmund Freud Award
Grace Fuselier & Meredith Neid  
$50, certificate, poster of pioneer scientist  
Stanley British Primary School  
*A Faulty Work World*

### Sir Frederick Herschel Award
Collin Farley  
$50, certificate, poster of pioneer scientist  
Abner Baker Central School  
*Attraction Action*

### Temple Grandin Award
Makenzy Dreher  
$50, certificate, poster of pioneer scientist  
Frontier Academy Secondary School  
*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  
*What Genre of Music Affects Blood Pressure the Most?*

### Organizational
#### Air & Waste Management Association Rocky Mountain States Section

<table>
<thead>
<tr>
<th>Award</th>
<th>Grade</th>
<th>School</th>
<th>Prize</th>
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<tbody>
<tr>
<td>Emily Idler</td>
<td>8th</td>
<td>Liberty School</td>
<td>$50</td>
</tr>
<tr>
<td>Sophie Dellinger</td>
<td>8th</td>
<td>Summit Charter Middle School</td>
<td>$50</td>
</tr>
<tr>
<td>Avery Lin</td>
<td>8th</td>
<td>Stanley British Primary School</td>
<td>$100</td>
</tr>
<tr>
<td>Kathryn Lawrence &amp; Katherine Younglove</td>
<td>12th</td>
<td>Fairview High School</td>
<td>$50</td>
</tr>
<tr>
<td>Eric Bear</td>
<td>10th</td>
<td>Colorado Academy</td>
<td>$100</td>
</tr>
<tr>
<td>Rochelle Casey</td>
<td>6th</td>
<td>Walsh Elementary School</td>
<td>$100</td>
</tr>
<tr>
<td>Kelsey Lindbloom</td>
<td>12th</td>
<td>Salida High School</td>
<td>$100</td>
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### American Association of University Women AAUW Award for Women in STEM

<table>
<thead>
<tr>
<th>Award</th>
<th>Grade</th>
<th>School</th>
<th>Prize</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rochelle Casey</td>
<td>6th</td>
<td>Walsh Elementary School</td>
<td>$100</td>
</tr>
<tr>
<td>Rise Up!</td>
<td>12th</td>
<td>Salida High School</td>
<td>$100</td>
</tr>
</tbody>
</table>

### American Association of University Women AAUW Award for Women in STEM

<table>
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<tr>
<th>Award</th>
<th>Grade</th>
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<td>Rochelle Casey</td>
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<td>$100</td>
</tr>
<tr>
<td>Kelsey Lindbloom</td>
<td>12th</td>
<td>Salida High School</td>
<td>$100</td>
</tr>
</tbody>
</table>
American Chemical Society
Colorado Local Section
ACS Award

Owen Growney 6th grade
$25, certificate
Connect Charter School Pueblo
How Do You Like Your Eggs?

Tobias DiRito 6th grade
$25, certificate
Bromley East Charter School Brighton
It's "Super-Cool"

Dustin Medina 7th grade
$25, certificate
Corwin International Magnet School Pueblo
Catalase Enzymes: How Does Temperature Affects Their Rates?

Emhyr Subramanian 8th grade
$25, certificate
Challenge School Denver
An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste

Madeleine Nagle 8th grade
$100, certificate
Summit Charter Middle School Boulder
Cost and Effectiveness of Sunscreens

Aliya Godoy 9th grade
$25, certificate
Skyview Academy Highlands Ranch
Does Temperature of a Crime Scene Affect the Transfer Quality of a Finger Print?

Sirisha Gudavalli 11th grade
($25, certificate
Fairview High School Boulder
Assembly of the CDK8 Kinase Module

Tara Mensch & Nicholas Finan 12th grade
$25, certificate
Peak to Peak Charter School Lafayette
Sun Grown Polymers Using Benchtop Organocatalyzed Atom Transfer Radical Polymerization

Kathryn Lawrence & Katherine Younglove 12th grade
$25, certificate
Fairview High School Boulder
The Effect of Carbon on Iron Nickle Bimetallic Nanoparticle Degradation of Orange G

Avi Swartz 11th grade
$100, certificate
Cherry Creek High School Greenwood Village
Quantifying Spliceosomal Components Using Heavy Labeled Peptide Concatemers

American Institute of Aeronautics & Astronautics
Rocky Mountain Section
Excellence in Aeronautics & Astronautics Award

Siddartha Ijju 8th grade
Arduino Kit & 1 Year AIAA Student Membership
Challenge School Denver
UAV-Emergency Response: Building an Autonomous Quadcopter for Emergency Response

Rylan McCall 8th grade
Arduino Kit & 1 Year AIAA Student Membership
West Grand High School Kremmling
Engineering a Wind Rover Processed with Python

Trevor Jordan 12th grade
Arduino Kit & 1 Year AIAA Student Membership
Animas High School Durango
A Wing of the Future: Part III

American Institute of Chemical Engineers
Rocky Mountain Section
Excellence in Chemical Engineering Award

Aubrie Lewis 6th grade
$75
Olathe Middle School Olathe
Desalination Evaporation

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

Lindsay Golding 9th grade
$75
Edison High School Yoder
Energy Efficient, Applicable Window Coverings

Sophia Markuson DiPrince 9th grade
$100
Central High School Pueblo
Anaerobic Digestion of Used Coffee Grounds to Generate Electricity

American Institute of Professional Geologists
Colorado Section
AIPG Certificate of Excellence in the Geosciences

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

Charlotte Heeley 8th grade
$100
Summit Charter Middle School Boulder
The Earth Moving the Waves

Elyssa Hofgard 11th grade
$50
Fairview High School Boulder
A Historical Analysis of the Current California Drought
**American Meteorological Society**  
*Denver/Boulder Section*  
*Award for Excellence in Atmospheric Science Research*

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

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*

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
Holmes Middle School  Colorado Springs
The Heat Is On . . . Or Off: Smart Thermostat Design with a Raspberry Pi Computer
$75

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

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

Colorado Biology Teachers' Association
CBTA Best Biology Project Award
Kathryn Kummel 7th grade
North Middle School Colorado Springs
All Spruced Up: The Causes and Consequences of Spruce Invasion into Aspen Canopies
$50, certificate

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

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

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

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

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

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

Colorado Dental Association
CDA Excellence in Oral Health Award
Brecken Dobbs 7th grade
La Veta Schools La Veta
Tooth Enamel? Can It Really Be Strengthened?
$50

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

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

Colorado Division of Reclamation, Mining & Safety
Outstanding Earth Science Award
Michaela Ravenkamp 6th grade
Genoa-Hugo School Hugo
Crop SOS: Do Crops Create Micro-climates?
$75

Wyatt Wiening 10th grade
Trinidad High School Trinidad
Strength Exerted by Montmorillonite Clay
$150, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference ($400 value)

Colorado Environmental Health Association
Environmental Health Award
Sophie Reeves 8th grade
Home School Durango
Lead Remediation: Applications of Algae in Fresh Water
$75, framed certificate

Colorado Foundation for Agriculture
Agriculture in the Classroom Award
Eojin Lee 8th grade
Walsh Jr/Sr High School Walsh
A Bout of Drought: Will It Change Cell Size?
$50, certificate

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

Wyeth Rossi 11th grade
Home School Durango
The Relationship between Cloud Chambers, Alpha Particles, Radon-222, and Different Floors of a House
$150, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference ($400 value)

Colorado Environmental Health Association
Environmental Health Award
Sophie Reeves 8th grade
Home School Durango
Lead Remediation: Applications of Algae in Fresh Water
$75, framed certificate

Colorado Foundation for Agriculture
Agriculture in the Classroom Award
Eojin Lee 8th grade
Walsh Jr/Sr High School Walsh
A Bout of Drought: Will It Change Cell Size?
$50, certificate

Sophia Niccoli 9th grade
Liberty School Joes
Storage Wars: The Effect of Storage Conditions on Feeds
$50, certificate
<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>School</th>
<th>Prize</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tyson Lichty</td>
<td>9th</td>
<td>Liberty School</td>
<td>$50, certificate</td>
<td>SNS-244 vs. Captan The Battle That Kills: Possible Prevention of Aspergillus flavus in Seed Storage</td>
</tr>
<tr>
<td>Jeffrey Brittain</td>
<td>7th</td>
<td>Ignacio Middle School</td>
<td>$100</td>
<td>COGA Application of Geography Award</td>
</tr>
<tr>
<td>Elyssa Hofgard</td>
<td>11th</td>
<td>Fairview High School</td>
<td>$100</td>
<td>A Historical Analysis of the Current California Drought</td>
</tr>
<tr>
<td>Nathan Panzer</td>
<td>7th</td>
<td>North Arvada Middle School</td>
<td>$100, invitation to the winners &amp; their parents to exhibit at the CMS annual meeting and attendance at the Presidential inaugural Dinner with a paid overnight stay</td>
<td>CMS Education Foundation Award</td>
</tr>
<tr>
<td>Laura Fleming</td>
<td>12th</td>
<td>Fairview High School</td>
<td>$100, invitation to the winners &amp; their parents to exhibit at the CMS annual meeting and attendance at the Presidential inaugural Dinner with a paid overnight stay</td>
<td>Colorado Medical Society</td>
</tr>
<tr>
<td>Logan Kilgroe</td>
<td>8th</td>
<td>Turner Middle School</td>
<td>$35, 1 mineral specimen, book, certificate</td>
<td>The Effects of a Granulocyte-Colony Stimulating Factor on White Blood Cells</td>
</tr>
<tr>
<td>Charlotte Heeley</td>
<td>8th</td>
<td>Summit Charter Middle School</td>
<td>$50, 1 mineral specimen, book, certificate</td>
<td>Valvular Interstitial Cell Activation in Response to Pro-Inflammatory Cytokine Treatment</td>
</tr>
<tr>
<td>Nathaniel Miner &amp; Drake Ludgate</td>
<td>9th</td>
<td>Brush High School</td>
<td>$75</td>
<td>Deadly Stratification: The Role of Temperature on Limnic Eruptions</td>
</tr>
<tr>
<td>Jenna Salvat</td>
<td>9th</td>
<td>Coronado High School</td>
<td>$50, 1 mineral specimen, book, certificate</td>
<td>Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics</td>
</tr>
<tr>
<td>Sarah Duzenack</td>
<td>7th</td>
<td>La Veta Schools</td>
<td>$100, CMS honorary membership certificate, signed copy of Vera Evenson's &quot;Rocky Mountain Mushrooms&quot; (new edition)</td>
<td>Colorado Geographic Alliance</td>
</tr>
<tr>
<td>Kathryn Kummel</td>
<td>7th</td>
<td>North Middle School</td>
<td>$50</td>
<td>Best Earth Science Award</td>
</tr>
<tr>
<td>Ruby Stith</td>
<td>8th</td>
<td>Skinner Middle School</td>
<td>$50</td>
<td>The Causes and Consequences of Spruce Invasion into Aspen Canopies</td>
</tr>
<tr>
<td>Nathaniel Miner &amp; Drake Ludgate</td>
<td>9th</td>
<td>Brush High School</td>
<td>$75</td>
<td>Type of Seed vs. Distance Dispersed by Wind</td>
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<tr>
<td>Wyatt Wiening</td>
<td>10th</td>
<td>Trinidad High School</td>
<td>$100</td>
<td>Deadly Stratification: The Role of Temperature on Limnic Eruptions</td>
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<tr>
<td>Patricia Todd</td>
<td>11th</td>
<td>Fairview High School</td>
<td>$500</td>
<td>Strength Exerted by Montmorillonite Clay</td>
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<td>Josef Perko</td>
<td>6th</td>
<td>Walt Clark Middle School</td>
<td>$50</td>
<td>Innovations in the Science of Agriculture Award</td>
</tr>
<tr>
<td>Michaela Ravenkamp</td>
<td>6th</td>
<td>Genoa-Hugo School</td>
<td>$75</td>
<td>Simulating Inbreeding Depression Probability in Devils Hole Pupfish: A Proof of Concept Study</td>
</tr>
<tr>
<td>Nathaniel Miner &amp; Drake Ludgate</td>
<td>9th</td>
<td>Brush High School</td>
<td>$75</td>
<td></td>
</tr>
</tbody>
</table>
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, certificate
Challenge School Denver Inexpensive Food Alternative From Microalgae Waste
Riley Meisner 10th grade $50 from CVMA, 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
Geona-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
The Effect of Dropping Stitched Tomatoes and How Well They Hold
Landon Tolsma 7th grade
science equipment/instrument
Sargent Jr/Sr High School Monte Vista
Can Water Be a Fuel?
Justin Wright 6th grade
science equipment/instrument
Walsh Elementary School Walsh
A Wing and a Prayer
Severn Young 12th grade
science equipment/instrument
Greeley West High School Greeley
Using Discharge in Freestyle to Swim the "Perfect Race"
Trent Martin 12th grade
science equipment/instrument
Cherry Creek High School Greenwood Village
Hydrologic Eddy Current Applications

Lockheed Martin
Lockheed Martin Aerospace Award
Siddartha Ijju 8th grade
$50
Challenge School Denver
UAV-Emergency Response: Building an Autonomous Quadcopter for Emergency Response
Shepherd Kruse 11th grade
$100
Home School Colorado Springs
Spike Vectoring: Designing and Constructing a Maneuverable Aerospike Rocket Engine

National Centers for Environmental Information
NCEI Award of Scientific Achievement
Sophie Dellinger 8th grade
$50 money order, certificate
Summit Charter Middle School Boulder
Capturing Sulfur Dioxide: Chemically or Biologically?

National Defense Industrial Association
NDIA STEM Excellence Award
Rewa Raizada 6th grade
$100
STEM School and Academy Highlands Ranch
The Effect of Blade Number and Length on a Windmill
Sara Nehring 7th grade
$100
Monte Vista Middle School Monte Vista
Do the Shuffle

National Renewable Energy Laboratory
NREL Energy Award
Hannah Zhang 10th grade
$100
Fairview High School Boulder
Reducing Building Energy Consumption by Personal Thermal Regulation

Rocky Mountain Association of Geologists
Excellence in Earth Science Award
Jenna Salvat 9th grade
cash award
Coronado High School Colorado Springs
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics
Nathaniel Miner & Drake Ludgate 9th grade
cash award
Brush High School Brush
Deadly Stratification:  The Role of Temperature on Limnic Eruptions
Logan Kilgroe 8th grade
cash award
Turner Middle School Berthoud
Tsunami!

Rocky Mountain Water Environment Association
Water Research Award
Jaycee LaGow & Lena Noordik 8th grade
$200
La Veta Schools La Veta
Plastic Soup in Our Waterways
Emhyr Subramanian 8th grade
$400
Liberty School Joes
An Attempt to Create a Hydrophobic, Biodegradable, Super-Absorbent Polymer That Can Extract Waste
Casey Shaw 10th grade
$200
Challenge School Denver
P. denitrificans-Based Remediation Techniques vs. Levels of Nitrate & Oxygen in Freshwater Environ
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 $50 Central High School Pueblo Bacteria Hysteria

Julian Salazar 11th grade $50 Northridge High School Greeley The Worm Squirm: Identifying the Effects of Frequency on Lubricus Terrestri's Environment

**Science Toy Magic**
*Physics Classroom Demonstration Award*

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

Skyler Kranjcew 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

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

**Society for Mining, Metallurgy, and Exploration**
*Colorado Section*

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 Mining Engineers**
*Colorado Chapter 354*

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*

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*

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

The Aquaponic Source
Innovation in Aquaponics Award
Maison Echols 7th grade Aquaponicals aquaponic growing system ($150 value)
Cortez Middle School Cortez Aquaponics vs. Soil

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 Life Saving Locating: Developing Autonomous Avalanche Rescue, Part 2

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

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 Reflected Laser Communications for Small Satellites

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 Effects of Sublimination of Dry Ice on Mars Geology
Kyle Fridberg 10th grade reference book, mineral specimen
Fairview High School Boulder Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams

University of Colorado, Denver
Medical Scientist Training Program Award
Laura Clark 8th grade $50
St. Columba Catholic School Durango Human Microbiome: Medical Ecology and the Effect of Behavior on Human Microflora
Hari Sowrirajan 10th grade $50
Fairview High School Boulder Nanoparticle-Induced Alterations in Cellular Junctions and Possible Therapeutic Interventions

University of Northern Colorado
MAST Institute
Mathematics and Science Teaching Institute
Sara Nehring 7th grade $50
Monte Vista Middle School Monte Vista Do the Shuffle
Merritt Singley & Kami Sweenie 12th grade $50
Brush High School Brush A Toast to Murphy's Law

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 Do the Shuffle
Joyce Xu 11th grade $100
Fairview High School Boulder Predictive Modeling of Optimal Cancer Therapies
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  
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*

Ebbie Kranjcec  
8th grade  
$100  
Fairview High School  
Boulder  
*Algal Growth of Real World Application*

**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
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
The Extent and Severity of the Impostor Phenomenon Amongst College Prep, AP, and IB Students
Avi Swartz
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Cherry Creek High School
Quantifying Spliceosomal Components Using Heavy Labeled Peptide Concatemers
Michelle Kummel
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Palmer High School
Modeling Transport in Creeks by Approximating Partial Differential Equations
Trevor Jordan
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
West Grand High School
Engineering a Wind Rover Processed with Python
Kyle Fridberg
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
Effect of Inorganic Nitrogen and Phosphorus on Benthic Algal Biomass in Colorado Streams
Joyce Xu
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
Predictive Modeling of Optimal Cancer Therapies
Isani Singh
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Cherry Creek High School
Studying the Effects of a Missing X Chromosome on the Liver
Rebecca Bloomfield
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Palmer High School
GASP!: Growth Advantage in Stationary Phase in Acinetobacter baylyi
Amanda Li
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
Determining Protein Unfolding Times Through Analysis of Single Molecule Force Spectroscopy Data
Ana Mayordomo
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Cherry Creek High School
Effects of Phosphorus and Nitrogen Levels in Soil on the Growth of Grass Under Drought Conditions
Riley Meisner
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Sterling High School
The Effects of Fluctuating Barometric Pressure on Labor Induction in Pregnant Ewes
Amber Michel
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Monte Vista High School
I Guess That's Why They Call It the Blues
Kathryn Lawrence & Katherine Younglove
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
The Effect of Carbon on Iron Nickle Bimetallic Nanoparticle Degradation of Orange G
Jenna Salvat
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Coronado High School
Sediment Injectites in Fault Zone Areas: An Investigation of Sedimentological Characteristics
Hannah Zhang
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Home School
Spike Vectoring: Designing and Constructing a Maneuverable Aerospace Rocket Engine
Kylie Hunter
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
Reducing Building Energy Consumption by Personal Thermal Regulation
Shepherd Kruse
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Home School
Wastewater Sourceflow and Its Effect on Energy Output in a Pressure Retarded Osmosis System
Andrea Lin
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Fairview High School
A Genetic Algorithm Based Approach to Optimize Sound Externalization
Hari Sowrirajan
$500 merit scholarship to attend Colorado College summer 2016 as pre-college students
Cherry Creek High School
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 Sydnee 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 Lichly 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
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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
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Joyce Xu
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Isani Singh
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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
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 Lubricis 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
<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>School</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jacob Isley</td>
<td>8th grade</td>
<td>Turner Middle School</td>
<td>Measuring Radiation From the Sun</td>
</tr>
<tr>
<td>Elyssa Hofgard</td>
<td>11th grade</td>
<td>Fairview High School</td>
<td>A Historical Analysis of the Current California Drought</td>
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<tr>
<td>Adrienne Jones</td>
<td>10th grade</td>
<td>Trinidad High School</td>
<td>Amateur Radio Astronomy</td>
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<tr>
<td>Evelyn Bodoni</td>
<td>8th grade</td>
<td>Challenge School</td>
<td>American Psychological Association</td>
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<tr>
<td>Benjamin Morris</td>
<td>12th grade</td>
<td>Fairview High School</td>
<td>Arizona State University</td>
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<tr>
<td>Michelle Kummel</td>
<td>10th grade</td>
<td>Palmer High School</td>
<td>Broadcom Nomination</td>
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<tr>
<td>Hunter Bostrom</td>
<td>12th grade</td>
<td>Brush High School</td>
<td>Broadcom Nomination</td>
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<tr>
<td>Eric Bear</td>
<td>10th grade</td>
<td>Colorado Academy</td>
<td>Broadcom Nomination</td>
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<tr>
<td>Cassidy Plane</td>
<td>11th grade</td>
<td>Alamosa High School</td>
<td>Broadcom Nomination</td>
</tr>
<tr>
<td>Nathaniel Brim</td>
<td>7th grade</td>
<td>The Classical Academy</td>
<td>ASM Materials Education Foundation</td>
</tr>
<tr>
<td>Michelle Kummel</td>
<td>10th grade</td>
<td>Palmer High School</td>
<td>Outstanding Achievement in Geosciences Award</td>
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<td>Jonathan Haerr</td>
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<td>The Classical Academy</td>
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<td>Charlotte Heeley</td>
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<td>Broadcom Nomination</td>
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<td>7th grade</td>
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<td>ASM Materials Education Foundation</td>
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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
Venus Fly Trap Response Time
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
How Does Atmosphere Affect the Amount of Subatomic
Particles?
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
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
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

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

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?