Press Release

Colorado Science and Engineering Fair
for Colorado Students
In Grades 6 - 12

Hosted by the Center for Science, Mathematics & Technology Education

Lory Student Center
Colorado State University
Fort Collins, Colorado

Kenna Brown
Grand Junction, CO
Junior Division
Best Individual Project

First Place
Reid Palser 7th grade
Submersible Vehicle Design and Modification
Otis Jr/Sr High School Otis

Second Place
Kaily Adair 7th grade
The Accuracy Behind the Accusation
Preston Middle School Fort Collins

Third Place
Bria Smith 8th grade
The Effects of Hydroxymethylfurfural on the Reproduction of Fruit Flies
Cherry Creek Challenge School Denver

Senior Division
Best Individual Project

First Place
Nikki Buhrdorf 10th grade
Aspen in a State of SADness: A Statistical Analysis of the Decline of Populus tremuloides
Hotchkiss High School Hotchkiss

Second Place
Ben Armstrong 12th grade
The Uptake of Endocrine Disrupting Chemicals
Monte Vista High School Monte Vista

Third Place
Radhika Rawat 12th grade
Pre-Initiation Complexes of SREBP-1a and -2
Boulder High School Boulder

Junior Division
Best Team Project

First Place
Jessie McLaughlin & Erin McLaughlin 8th grade
Irrigation Water Salinity and Its Effect on Early Plant Growth
Sacred Heart of Jesus School Boulder

Second Place
Lawrence Zhang & Isabelle Nathanson 8th grade
Thinking in Color: The Effect of Brain Dominance on How We Learn
Summit Middle School Boulder

Third Place
Levi Schofield & Luke Dekker 8th grade
DWD (Driving While Distracted)
Evangelical Christian Academy Colorado Springs

Senior Division
Best Team Project

First Place
Tonya Pavlenko & Laura Gudvangen 11th grade
Internal Combat with Melanoma: Triggering an Immune Response through the Up-Regulation of FAS Using Toll Ligand Combination Treatments
Palmer High School Colorado Springs

Second Place
Lorne Muir II & Nathan Weeks 10th grade
Analyzing the Separate Toxicity of Engineered Nanoparticles on L1210 Cells
The Classical Academy Colorado Springs

Third Place
Alexander Port & Devon Stork 11th grade
The Effect of Intramolecular Bonding on the Structure of Odor Binding Protein-4
George Washington High School Denver
### Junior Division

#### Behavioral & Social Sciences

**First Place**
- Kaily Adair  
  7th grade  
  The Classical Academy  
  Fort Collins

**Second Place**
- Alesa Muir  
  6th grade  
  The Classical Academy  
  Colorado Springs

**Third Place**
- Julia Siegel  
  8th grade  
  Herzl Rocky Mountain Hebrew Academy  
  Denver

**Category Team Award**
  8th grade  
  Evangelical Christian Academy  
  Colorado Springs

**Category Team Award**
- Lawrence Zhang & Isabelle Nathanson  
  8th grade  
  Summit Middle School  
  Boulder

**Honorable Mention**
- Chad Haunschild  
  6th grade  
  Mountain View Core Knowledge School  
  Canon City

**Honorable Mention**
- Marika Schubert  
  8th grade  
  Russell Middle School  
  Colorado Springs

**Honorable Mention**
- Sophie Foster  
  6th grade  
  North Middle School  
  Colorado Springs

#### Chemistry

**First Place**
- CJ VanDeMark  
  7th grade  
  Mediterranean Paint Mediums  
  Union Colony Middle School  
  Greeley

**Second Place**
- Ross Rierson  
  8th grade  
  Green Tea: A Healthy Choice?  
  Sargent Jr/Sr High School  
  Monte Vista

**Third Place**
- Teisha Coffield  
  7th grade  
  Rethinking De-inking  
  Lone Star School  
  Otis

**Honorable Mention**
- Robin Austin  
  8th grade  
  Yeast: CO2 Output Using Natural and Artificial Sweeteners  
  Columbine Christian School  
  Durango

**Honorable Mention**
- Lauren Wilson  
  7th grade  
  Blaze vs. Baking Soda  
  The Classical Academy  
  Colorado Springs

### Senior Division

#### Behavioral & Social Sciences

**First Place**
- Vikash Hypio  
  10th grade  
  Voting Systems: An Outcome Analysis, Phase 2  
  Hotchkiss High School  
  Hotchkiss

**Second Place**
- Joshua Garcia  
  11th grade  
  Are You Confined to a Life with Musical Disabilities?  
  Monte Vista High School  
  Monte Vista

**Third Place**
- Diane Schultz  
  10th grade  
  Error in MRI: Bias, Random Error and the Power of Suggestion  
  Cherry Creek High School  
  Greenwood Village

**Honorable Mention**
- Sarah Oden  
  11th grade  
  Human Perception: A Study on Implicit Prejudice  
  Monte Vista High School  
  Monte Vista

#### Chemistry

**First Place**
- Jaehee Park  
  11th grade  
  Using Steel Wool to Remove Arsenic from Drinking Water  
  Fairview High School  
  Boulder
<table>
<thead>
<tr>
<th>Category Team Award</th>
<th>11th grade</th>
<th>First Place</th>
<th>Joanna Phillips</th>
<th>10th grade</th>
<th>Cheyenne Mountain High School</th>
<th>Colorado Springs</th>
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</thead>
<tbody>
<tr>
<td>Alexander Port &amp; Devon Stork</td>
<td></td>
<td>Second Place</td>
<td>Tara Sowririaan</td>
<td>10th grade</td>
<td>Cherry Creek High School</td>
<td>Greenwood Village</td>
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<tr>
<td>The Effect of Intramolecular Bonding on the Structure of Odor Binding Protein-4</td>
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<td>Third Place</td>
<td>Tanya Petach</td>
<td>11th grade</td>
<td>Fairview High School</td>
<td>Boulder</td>
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<td>George Washington High School</td>
<td>Denver</td>
<td>Honorables Mention</td>
<td>Katelyn Yowell</td>
<td>11th grade</td>
<td>Poudre High School</td>
<td>Fort Collins</td>
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<td>Travis Zuniga</td>
<td>11th grade</td>
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<td>Cecelia Brennan</td>
<td>8th grade</td>
<td>Holy Family Catholic School</td>
<td>Grand Junction</td>
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<td>South High School</td>
<td>Pueblo</td>
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<td>Ryan Mitchell &amp; Drake Hammond</td>
<td>8th grade</td>
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<tr>
<td><strong>Junior Division</strong></td>
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<td><strong>Earth &amp; Space Sciences</strong></td>
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<td><strong>Junior Division</strong></td>
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<td><strong>Energy &amp; Transportation</strong></td>
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<tr>
<td>Sophia Schneider</td>
<td>8th grade</td>
<td>Nathanael Ramirez</td>
<td>8th grade</td>
<td>Sargent Jr/Sr High School</td>
<td>Monte Vista</td>
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<tr>
<td>Reducing Global Warming? The Effect of Microorganisms on Geologic Sequestration</td>
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<td>Second Place</td>
<td>Ryan Famiglietti</td>
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<td>North Middle School</td>
<td>Colorado Springs</td>
<td>Garbage Is Good: Gasification as Green Energy</td>
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<td>Taylor Volosky</td>
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<td>David Ritzwoller</td>
<td>8th grade</td>
<td>Christy Farnsworth</td>
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<td>Do Earthquakes in Colorado Follow the Gutenberg-Richter Law?</td>
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<td>Summit Middle School</td>
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<td>A New Look of Alternative Energy</td>
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<td>Joanna Phillips</td>
<td>10th grade</td>
<td>Sara Volz</td>
<td>9th grade</td>
<td>Cheyenne Mountain High School</td>
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<td>Infested Forests and Evapotranspiration II: Developing a Watershed Model</td>
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<tr>
<td>Scott Martin</td>
<td>12th grade</td>
<td>Optimizing Energy Extraction and Water Conservation of Geothermal Heating Systems, Part II</td>
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<td>Storing and Harnessing Energy through Pumped Micro-Hydroelectric Systems</td>
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Junior Division
Engineering

First Place
Reid Palser 7th grade
Submersible Vehicle Design and Modification
Otis Jr/Sr High School Otis

Second Place
Dylan Schlager 8th grade
Internet Through a Can???
Summit Middle School Boulder

Third Place
Jennifer Jones 7th grade
Catching the Musca domestica: A Study of the Common House Fly and Trapping It with a Biodegradable, Eco-Friendly and Non-Hazardous Fly Trap
Weld Central Junior High School Keenesburg

Senior Division
Engineering

First Place
Henry Shennan 12th grade
A 2.3m Dual Band Radio Telescope for Power Mapping and Line Spectra Observations
Fairview High School Boulder

Second Place
Jesse Ellison 12th grade
Next Generation Propulsion: The ALFA Mark VI
Bayfield High School Bayfield

Third Place
Megan Perez 10th grade
The Hovercraft Project
Del Norte High School Del Norte

Honorable Mention
Roberto Fortes & Taylor Labato 12th grade
Trash Landing: Building a Plane from Recycled Materials
Center High School Center

Junior Division
Environmental Sciences

First Place
Rachel Rossi 8th grade
Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water
Miller Middle School Durango

Second Place
Devon Enke 8th grade
Mycorrhizal/Symbiosis: Unlocking the Potential of Soil
La Veta Jr/Sr High School La Veta

Third Place
Grant Yowell 8th grade
Go Green with BioPlastics
Genoa-Hugo School Hugo

Category Team Award
Jessie McLaughlin & Erin McLaughlin 8th grade
Irrigation Water Salinity and Its Effect on Early Plant Growth
Sacred Heart of Jesus School Boulder

Honorable Mention
Torin McDonald 8th grade
The Impact of a Coal Mine on Water Quality
Summit Middle School Boulder

Honorable Mention
Brett Ferraro 8th grade
Troubled Waters?
Vail Mountain School Vail

Honorable Mention
Dante Carter 8th grade
Do Natural Remedies Work for Stream Pollution?
North Middle School Colorado Springs

Senior Division
Environmental Sciences

First Place
Ben Armstrong 12th grade
The Uptake of Endocrine Disrupting Chemicals
Monte Vista High School Monte Vista

Second Place
Shannon McAvoy 12th grade
Water, Water Everywhere
Windsor High School Windsor

Third Place
Mark Seres 12th grade
Optimization of the Amount of Iron for the Enhancement of Phytoplankton Blooms
Cherry Creek High School Greenwood Village

Honorable Mention
Brisha Wakasugi 10th grade
Kerber Creek Restoration: Using Phytoremediation to Rebuild a Watershed
Sierra Grande Jr/Sr High School Blanca

Honorable Mention
Jeffrey Hibbert 11th grade
The Implications of Using Carbon Nanotubes to Promote Algal Growth
Lone Star School Otis

Junior Division
Mathematics & Computer Sciences

First Place
Brandon Jacobs 8th grade
Hard Drive Sector Size . . . Does It Impact Performance?
Summit Middle School Boulder
Second Place
Kyle Kihn 8th grade
Stopping the Spread of H1N1: A Computer Simulation
Nevin Platt Middle School Boulder

Third Place
Dakota Harris 7th grade
Magical Mathematical Juice
Wiggins Middle School Wiggins

Senior Division
Mathematics & Computer Sciences

First Place
John Parish IV 11th grade
Closer to Where It Wasn’t: Estimation and Tracking Using Adaptive Filtering
Home School Colorado Springs

Second Place
Robin Betz 12th grade
Automated Image Reassembly with a Hybrid Genetic Algorithm
Fairview High School Boulder

Third Place
Garrett Glissmann 10th grade
Leveraging the Twitter Platform for Mass Communication and Collection of Opinions
Boulder High School Boulder

Honorable Mention
Jessica Constant 9th grade
Computer Modeling III: An Eulerian Simulation Model of Particulate Dispersion in the Atmosphere
Poudre High School Fort Collins

Honorable Mention
Ashlynn Miller 11th grade
Determination of Fractal Dimension of Blood Spatter Patterns
Lone Star School Otis

Junior Division
Medicine & Health

First Place
Abigail Negley 8th grade
The Effect of Pain Killers on the Healing Process of Planaria
North Middle School Colorado Springs

Second Place
Sydney Matteson 7th grade
Planaria Grow: Fast or Slow? The Effects of Healing Remedies on the Regeneration of Planaria
North Middle School Colorado Springs

Third Place
Kaitlyn Nagel 8th grade
Running on Fumes
Blevins Middle School Fort Collins

Honorable Mention
Megan Percy 7th grade
The Best Thing Since Fresh Fruit
The Classical Academy Colorado Springs

Honorable Mention
Phoebe Stoye 8th grade
The Effect of Therabands on Ankle Strength
East Middle School Grand Junction

Category Team Award
Tonya Pavlenko & Laura Gudvangen 11th grade
Internal Combat with Melanoma: Triggering an Immune Response Through the Up-Regulation of FAS Using Toll Ligand Combination Treatments
Palmer High School Colorado Springs

Category Team Award
Lorne Muir II & Nathan Weeks 10th grade
Analyzing the Separate Toxicity of Engineered Nanoparticles on L1210 Cells
The Classical Academy Colorado Springs

Honorable Mention
Nikki Schmidt 11th grade
Mixing Prescriptions? The Inactivation of Tamoxifen by SSRIs on Lumbriculus variegatus
Merino Jr/Sr High School Merino

Junior Division
Microbiology

First Place
Chelsea Smith 7th grade
Ewww! What’s on My Shoe?
The Classical Academy Colorado Springs

Second Place
Marcus Witzel 7th grade
Monumental Mold
The Classical Academy Colorado Springs
### Third Place
Anne Mummery 6<sup>th</sup> grade
*Don’t Eat the Yellow Snow*
Miller Middle School Durango

### Honorable Mention
Connor Fiscus 7<sup>th</sup> grade
*M MMM . . . I’m Lovin’ It! Unless It’s on the Floor*
Merino Jr/Sr High School Merino

### Honorable Mention
Alicia Gerken 7<sup>th</sup> grade
"Why then, can one desire too much of a good thing?"
*Shakespeare’s As You Know It, 1600*
Weld Central Junior High School Keenesburg

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### Senior Division Microbiology

<table>
<thead>
<tr>
<th>First Place</th>
<th>Katherine Schilling 12&lt;sup&gt;th&lt;/sup&gt; grade</th>
<th>Strain Engineering Furfural Resistance in <em>E. coli</em> for Biofuel Applications</th>
<th>Fairview High School Boulder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Place</td>
<td>Wyatt Palser 9&lt;sup&gt;th&lt;/sup&gt; grade</td>
<td>An Examination of Silver Nanoparticles: Antimicrobial Effects and Mitigation</td>
<td>Otis Jr/Sr High School Otis</td>
</tr>
<tr>
<td>Third Place</td>
<td>Elaine Wolfe 12&lt;sup&gt;th&lt;/sup&gt; grade</td>
<td>The Effects of Common Oral Hygiene Routines on the Oral Microbiota</td>
<td>Fairview High School Boulder</td>
</tr>
</tbody>
</table>

### Honorable Mention
Nick Wilbur 6<sup>th</sup> grade
*Making Waves: The Effect of Bow Size on Violin Sound Waves*
Miller Middle School Durango

### Honorable Mention
Alina Lugo 8<sup>th</sup> grade
*Planaria Regeneration and Electromagnetism*
North Middle School Colorado Springs

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### First Place
Jessica O’Brien 8<sup>th</sup> grade
*Picture Perfect*
Peak to Peak Charter School Lafayette

### Second Place
Emma Frantz 7<sup>th</sup> grade
*The Effects of Magnetic Levitation on Friction Force*
North Middle School Colorado Springs

### Third Place
Aidan Mike 8<sup>th</sup> grade
*What’s the Point? A Ballistic Analysis of Arrowheads*
North Middle School Colorado Springs

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### Junior Division Plant Sciences

<table>
<thead>
<tr>
<th>First Place</th>
<th>Johanne Albrightsen 8&lt;sup&gt;th&lt;/sup&gt; grade</th>
<th>Allelopathic Effects of <em>Picea pungens</em></th>
<th>Summit Middle School Boulder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second Place</td>
<td>Samantha Ensz 11&lt;sup&gt;th&lt;/sup&gt; grade</td>
<td>Photon Emission Based on Color</td>
<td>Hi-Plains Jr/Sr High School Seibert</td>
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<tr>
<td>Third Place</td>
<td>Tucker Leavitt &amp; Samuel Kater 9&lt;sup&gt;th&lt;/sup&gt; grade</td>
<td>Electrostatic Power Amplification</td>
<td>Animas High School Durango</td>
</tr>
</tbody>
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### First Place
Haley Matteson 8<sup>th</sup> grade
*Sick Plants, Well Plants: Using Plants as Biological Indicators of Pharmaceutical Pollution*
North Middle School Colorado Springs

### Second Place
Johanne Albrightsen 8<sup>th</sup> grade
*Allelopathic Effects of *Picea pungens**
Summit Middle School Boulder
Third Place
Zachary Nastri 7th grade
*What Colors of Light Make a Plant Grow?*
Most Precious Blood Catholic School Denver

Honorable Mention
Tucker Teague 6th grade
*Effects of Lagoon Water on Bean Plants*
Wiggins Jr/Sr High School Wiggins

Honorable Mention
Elizabeth Hoffner 8th grade
*Healthy and Nutritious Spud*
Home Schooled Center

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Senior Division
Plant Sciences

First Place
Nikki Buhrdorf 10th grade
*Aspen in a State of SADness: A Statistical Analysis of the Decline of Populus tremuloides*
Hotchkiss High School Hotchkiss

Second Place
Wylie Keller 10th grade
*Wool as a Potting Media*
Monte Vista High School Monte Vista

Third Place
Jordan Lestina 11th grade
*Biodiesel from Sunflowers: An Analysis of Planting Dates, Soil Temperature and Oil Content*
Dove Creek High School Dove Creek

Honorable Mention
Deshae Gehr & Lauren Bacon 12th grade
*The Effects of Estrogen on RNAi Expression of Arabidopsis Wild-Type and Mutant Strains*
Monarch High School Louisville
2010 Colorado Science and Engineering Fair
Special Awards Press Release

**Colorado Science and Engineering Fair**

**Ralph Desch Memorial Technical Writing Award**

Harraz MohdReza  
11th grade  
Union Colony Preparatory School  
Greeley  
*Immunocytochemical Characterization of Mouse Brain Explants in an In Vitro Model of Schizophrenia*

**Student Choice Awards**

Ty Gardner & Blaine Cahill  
7th grade  
West Middle School  
Grand Junction  
*Shaping the Bird Brain*

Erik Schnaderbeck  
11th grade  
Sargent Jr/Sr High School  
Monte Vista  
*Identifying Individual Rainbow Trout Utilizing Distinct Spot Orientation*

**Poster Art Contest**

Branislava Blagojevic  
$100, certificate  
Canon City High School  
Canon City  
*Pioneers of Science - Edwin Powell Hubble*

Sidney Stegman  
6th grade  
Lamar Elementary School  
Lamar  
*Mystery Spin*

Anabel Henriquez  
7th grade  
Cesar Chavez Academy  
Pueblo  
*At What Temperature Do Dogs Prefer Their Food?*

**Pioneers of Science - Grace Hopper**

Dakota Harris  
7th grade  
Wiggins Jr/Sr High School  
Wiggins  
*Magical Mathematical Juice*

Ryan Rohn  
6th grade  
Wiggins Jr/Sr High School  
Wiggins  
*Get Wet and Wrinkly*

**Pioneers of Science - Greene Vardiman Black**

Kayla Snyder  
6th grade  
Falcon Middle School  
Falcon  
*Ice Is Nice*

**Pioneers of Science - John Edward Salk**

Rene Carter  
$30, certificate  
North Middle School  
Colorado Springs  
*Dandelion Root and Peppermint Leaf vs. Penicillin*

**Pioneers of Science - Louis Pasteur**

Anne Mummery  
6th grade  
Miller Middle School  
Durango  
*Don’t Eat the Yellow Snow*

**Pioneers of Science - Luther Burbank**

Rex Stowers  
7th grade  
St. Columba Catholic School  
Durango  
*Phytoremediation: Can Plants Clean Soil?*

**Pioneers of Science - Margaret Mead**

Chad Haunschild  
6th grade  
Mountain View Core Knowledge School  
Canon City  
*Exercises: Can the Eyes Learn?*

**Pioneers of Science – Max Planck**

Kohler McInnis  
7th grade  
St. Columba Catholic School  
Durango  
*Maglev Trains: Are They Cool or Are They Hot? A Study of the Effect of Temperature on Maglev Trains*

**Pioneers of Science - Nicola Tesla**

Madison Thompson  
6th grade  
Otis Jr/Sr High School  
Otis  
*Can You STAND This??*

**Pioneers of Science - Rachel Louise Carson**

Nathan Witt  
7th grade  
Arriba-Flagler School  
Flagler  
*Riprap Gives Erosion a Nap*

**Pioneers of Science - Rosalie Edge**

Bryce Ward  
6th grade  
Miller Middle School  
Durango  
*O Pollution, Pollution! Wherefore Art Thou Pollution?*
Pioneers of Science - Sigmund Freud
Schyler Adkins & Gabrielle Potter  8th grade  
$30, certificate  
Goodnight School  Pueblo
T.G.I.F

Pioneers of Science – Sir William Grove
Morgan Felix  7th grade  
$30, certificate  
Olathe Middle School  Olathe
Magnobile

Military

United States Air Force
Air Force ROTC Award
Forrest Pieper & Robert Decker  12th grade  
certificate, connections computer accessories kit, Slazenger sport deluxe sling, magnetic floating pen/holder  
Nederland Middle/Senior High School  Nederland
Internal Stretcher Storage of Medical Oxygen for On-Site Emergency Treatment
Jesse Ellison  12th grade  
certificate, connections computer accessories kit, Slazenger sport deluxe sling, magnetic floating pen/holder  
Bayfield High School  Bayfield
Next Generation Propulsion: The ALFA Mark VI
Christy Farnsworth  12th grade  
certificate, connections computer accessories kit, Slazenger sport deluxe sling, magnetic floating pen/holder  
Paonia Jr/Sr High School  Paonia
A New Look of Alternative Energy
Robin Betz  12th grade  
certificate, connections computer accessories kit, Slazenger sport deluxe sling, magnetic floating pen/holder  
Fairview High School  Boulder
Automated Image Reassembly with a Hybrid Genetic Algorithm

United States Army
Department of the Army Award
Connie Liu  11th grade  
certificate, $50 (to be mailed)  
Cherry Creek High School  Greenwood Village
Therapeutic Use of microRNA-200c to Treat HEY Ovarian Cancer
Tonya Pavlenko & Laura Gudvangen  11th grade  
certificate, $50 (to be mailed)  
Palmer High School  Colorado Springs
Internal Combat with Melanoma: Triggering an Immune Response through the Up-Regulation of FAS Using Toll Ligand Combination Treatments
Henry Shennan  12th grade  
certificate, $50 (to be mailed)  
Fairview High School  Boulder
A 2.3m Duel Band Radio Telescope for Power Mapping and Line Spectra Observations

United States Navy & United States Marine Corps
Office of Naval Research Awards
Chad Haunschild  6th grade  
certificate  
Mountain View Core Knowledge School  Canon City
Exercises: Can the Eyes Learn?
Dylan SchLAGER  8th grade  
certificate  
Summit Middle School  Boulder
Internet Through a Can???
Nick Wilbur  6th grade  
certificate  
Miller Middle School  Durango
Making Waves: The Effect of Bow Size on Violin Sound
Connie Liu  11th grade  
certificate, $75 (to be mailed later)  
Sargent Jr/Sr High School  Monte Vista
Therapeutic Use of microRNA-200c to Treat HEY Ovarian Cancer
Emily Schnoor  12th grade  
certificate, $75 (to be mailed later)  
Palonia Jr/Sr High School  Paonia
The Answer Is in the Solution

Organizational

Air & Waste Management Association
Rocky Mountain States Section
Rachel Rossi  8th grade  
$50  
Miller Middle School  Durango
Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water
<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>Location</th>
<th>Project Title</th>
<th>Prize Details</th>
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<tr>
<td>Ryan Parrish</td>
<td>7th</td>
<td>Colorado Springs</td>
<td>Does Size Matter: The Effect of Building Size on the Winds Ability to Remove Pollution</td>
<td>$50, certificate, $50</td>
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<tr>
<td>Bryce Ward</td>
<td>6th</td>
<td>Durango</td>
<td>O Pollution, Pollution! Wherefore Art Thou Pollution?</td>
<td>$50</td>
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<td>Brisha Wakasugi</td>
<td>9th</td>
<td>Blanca</td>
<td>Kerber Creek Restoration: Using Phytoremediation to Rebuild a Watershed</td>
<td>$50</td>
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<tr>
<td>Shannon McAvoy</td>
<td>12th</td>
<td>Windsor</td>
<td>Water, Water Everywhere</td>
<td>$50</td>
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<tr>
<td>Haley Matteson</td>
<td>8th</td>
<td>Colorado Springs</td>
<td>Sick Plants, Well Plants: Using Plants as Biological Indicators of Pharmaceutical Pollution</td>
<td>$100</td>
</tr>
<tr>
<td>Leonard Brasuel</td>
<td>6th</td>
<td>Colorado Springs</td>
<td>What's the Spiciest Part of a Chile?</td>
<td>$100, certificate, $50 for adult sponsor</td>
</tr>
<tr>
<td>Jaehee Park</td>
<td>11th</td>
<td>Boulder</td>
<td>Using Steel Wool to Remove Arsenic from Drinking Water</td>
<td>$100, $100 for adult sponsor</td>
</tr>
<tr>
<td>Tyler Morley</td>
<td>8th</td>
<td>Durango</td>
<td>Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water</td>
<td>$50, $50 for adult sponsor</td>
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<td>Emma Frantz</td>
<td>7th</td>
<td>Colorado Springs</td>
<td>The Effects of Magnetic Levitation on Friction Force</td>
<td>$100, $100 for adult sponsor</td>
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<td>Ethan Hahn</td>
<td>12th</td>
<td>Colorado Springs</td>
<td>Nuclear Fusion by Inertial Electrostatic Confinement: Increasing Efficiency with Thermionic Emission</td>
<td>$50, $50 for adult sponsor</td>
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<td>Jesse Ellison</td>
<td>12th</td>
<td>Bayfield</td>
<td>Next Generation Propulsion: The ALFA Mark VI</td>
<td>$100, $100 for adult sponsor</td>
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</tbody>
</table>
American Water Works Association  
Rocky Mountain Section &  
Rocky Mountain Water Environment Association

Rachel Rossi  
$200  
Miller Middle School  
Durango  
*Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water*

Jesse McLaughlin & Erin McLaughlin  
$400  
Sacred Heart of Jesus School  
Boulder  
*Irrigation Water Salinity and Its Effect on Early Plant Growth*

Kelli Lynch  
$200  
Rocky Mountain High School  
Fort Collins  
*Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms*

Ben Armstrong  
$400  
Monte Vista High School  
Monte Vista  
*The Uptake of Endocrine Disrupting Chemicals*

ASM International

Tyler Lopez & Elizabeth Fink  
$100  
Goodnight School  
Pueblo  
*Help! Save My Car!*

Brenna Ray  
$150  
Carlos Nunez  
La Veta Jr/Sr High School  
La Veta  
*NaCl and MgCl₂: A Study on the Role of Deicers in the Deterioration of Various Materials*

Association for Women Geoscientists  
Laramide Chapter

Shania Gonzales  
$75, achievement medal  
Cesar Chavez Academy  
Pueblo  
*Radiation Fog*

Teisha Coffield  
$75, achievement medal  
Lone Star School  
Otis  
*Rethinking De-inking*

Boulder Flycasters - Trout Unlimited

Brett Ferraro  
$100 savings bond, Boulder Flycaster's hat  
Vail Mountain School  
Vail  
*Troubled Waters?*

Colorado Association of Science Teachers  
CAST Awards

Robin Austin  
$75  
Columbine Christian School  
Durango  
*Yeast: CO₂ Output Using Natural and Artificial Sweeteners*

Grant Yowell  
$75  
Genoa-Hugo School  
Hugo  
*Go Green with BioPlastics*

Sarah Kerbs  
$75  
Wray High School  
Wray  
*bugs Be Gone! Evaluation of the Effectiveness of Pyrethrum and Synthetic Based Equine Insect Repellant*

Jaehee Park  
$75  
Boulder  
*Using Steel Wool to Remove Arsenic from Drinking Water*

Gerald Gromko Award

Samantha Ensz  
$175, plaque  
Hi-Plains Jr/Sr High School  
Seibert  
*Photon Emission Based on Color*

Colorado Biology Teachers Association

Reece Kothe  
$75, certificate  
Eaton Middle School  
Eaton  
*Common Lambsquarters Weed: Glyphosate Tolerant? Is It Too Late?*

Emily Schnoor  
$75, certificate  
Sargent Jr/Sr High School  
Monte Vista  
*The Answer Is in the Solution*

Colorado Dental Association

Michaela Keeler  
$50  
Hi-Plains Jr/Sr High School  
Seibert  
*Prevention of Bacteria from Ahhh to Z*

Tyler Chin  
$50  
Orchard Mesa Middle School  
Grand Junction  
*Dirty Mouth vs. Clean Mouth Cats (Who has the most bacteria in their saliva?)*

Lauren Dewey & Ellie Sullivan  
$50  
North Middle School  
Colorado Springs  
*Don’t Kiss Your . . .*

Elaine Wolfe  
$100  
Fairview High School  
Boulder  
*The Effects of Common Oral Hygiene Routines on the Oral Microbiota*
Colorado Division of Wildlife

Zoe Wohlgenant 8th grade
$50, packet of Colorado Division of Wildlife products
Hill Campus of the Arts and Sciences  Denver
The Efficacy of Sugar Dusting in Controlling Populations of Honey Bee Mites

Erik Schnaderbeck 11th grade
$50, packet of Colorado Division of Wildlife products
Sargent Jr/Sr High School  Monte Vista
Identifying Individual Rainbow Trout Utilizing Distinct Spot Orientation

Colorado Environmental Health Association

Jennifer Jones 7th grade
$75, framed certificate
Weld Central Junior High School  Keenesburg
Catching the Musca domestica: A Study of the Common House Fly and Trapping It with a Biodegradable, Eco-Friendly and Non-Hazardous Fly Trap

Kelli Lynch 10th grade
$150, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference ($400 value)
Rocky Mountain High School  Fort Collins
Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms

Colorado Foundation for Agriculture

Agriculture in the Classroom Awards

Reece Kothe 8th grade
$50, certificate
Eaton Middle School  Eaton
Common Lambsquarters Weed: Glyphosate Tolerant? Is It Too Late?

Johanne Albrightsen 8th grade
$50, certificate
Summit Middle School  Boulder
Allelopathic Effects of Picea pungens

Savannah Schilling 12th grade
$50, certificate
Broomfield High School  Broomfield
There’s Not Room in This Knapweed for the Both of Us

Wylie Keller 10th grade
$50, certificate
Monte Vista High School  Monte Vista
Wool as a Potting Media

Colorado Geographic Alliance

Adam Hofinga 8th grade
$100
Otis Jr/Sr High School  Otis
Gone with the Wind

Tanya Petach 11th grade
$100
Fairview High School  Boulder
Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors

Colorado Medical Society

Ethan Pence 6th grade
$100, invitation to the winners and their parents to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
Eagle County Charter Academy  Edwards
If You Can’t See, You Can’t Hear

Harraz MohdReza 11th grade
$100, invitation to the winners and their parents to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
Union Colony Preparatory School  Greeley
Immunocytochemical Characterization of Mouse Brain Explants in an In Vitro Model of Schizophrenia

Colorado Mineral Society

Taylor Volesky 8th grade
$25, 2 mineral specimens, book
Cherry Creek Challenge School  Denver
The Physical Weathering of Rocks: The Freeze Thaw Cycle

Sophia Schneider 8th grade
$40, 2 mineral specimens, book
North Middle School  Colorado Springs
Reducing Global Warming? The Effect of Microorganisms on Geologic Sequestration

Jaehee Park 11th grade
$25, 2 mineral specimens, book
Fairview High School  Boulder
Using Steel Wool to Remove Arsenic from Drinking Water

Tanya Petach 11th grade
$40, 2 mineral specimens, book
Fairview High School  Boulder
Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors

Colorado River Watch

Torin McDonald 8th grade
$50
Summit Middle School  Boulder
The Impact of a Coal Mine on Water Quality

Colorado Scientific Society

Taylor Volesky 8th grade
$50
Cherry Creek Challenge School  Denver
The Physical Weathering of Rocks: The Freeze Thaw Cycle

David Ritzwoller 8th grade
$75
Summit Middle School  Boulder
Do Earthquakes in Colorado Follow the Gutenberg-Richter Law?

Johanna Phillips 10th grade
$75
Monte Vista High School  Monte Vista
Infested Forests and Evapotranspiration II: Developing a Watershed Model
Tanya Petach  
$100  
Fairview High School  
Boulder  
*Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors*

**Colorado State University**  
**Dept. of Biochemistry & Molecular Biology**

Rahul Shankarl  
$100 (to be mailed)  
Rampart High School  
Colorado Springs  
*Proteomic Method Development for the Analysis of Tissue Transglutaminases Role in Cancer Progression*

Leonard Brasuel  
$100 (to be mailed)  
North Middle School  
Colorado Springs  
*What’s the Spiciest Part of a Chile?*

Jaehee Park  
$100 (to be mailed), certificate  
Fairview High School  
Boulder  
*Using Steel Wool to Remove Arsenic from Drinking Water*

**Colorado State University**  
**Dept. of Horticulture & Landscape Architecture**

Elizabeth Hoffner  
$100 (to be mailed), certificate  
Home Schooled  
Center  
*Healthy and Nutritious Spud*

Haley Matteson  
$100 (to be mailed), certificate  
North Middle School  
Colorado Springs  
*Sick Plants, Well Plants: Using Plants as Biological Indicators of Pharmaceutical Pollution*

Kyle Harlow  
$100 (to be mailed), certificate  
Canon City High School  
Canon City  
*Dandelions Dare to Differ: Measuring the Phenotypical Variations of Taraxacum officinale*

**Colorado Trout Unlimited**

Brisha Wakasugi  
$100 savings bond, copy of “Trout and Salmon of North America by Dr. Robert Behnke*

**Colorado Veterinary Medical Association & CVMS Auxiliary**

Aleesa Muir  
$50 from CVMA, $50 from CVMA Auxiliary, certificate, gold medallion  
The Classical Academy  
Colorado Springs  
*Developing an Awareness of Pet Stewardship*

Alexa Major  
$50 from CVMA, $50 from CVMA Auxiliary, certificate, gold medallion  
Fowler School  
Fowler  
*Got A1 or A2 Milk?*

**Colorado-Wyoming Society of American Foresters**

Melinda Vickers  
$100 savings bond  
Eagle County Charter School  
Edwards  
*A Burning Question*

Nakayla Lestina  
$100 savings bond  
Dove Creek High School  
Dove Creek  
*Biological Control of Tamarisk: Analyzing the Tamarisk Leaf*

Nikki Buhrdorf  
$100 savings bond  
Hotchkiss High School  
Hotchkiss  
*Aspen in a State of SADness: A Statistical Analysis of the Decline of Populus tremuloides*

**Division of Reclamation Mining and Safety**

Nathan Witt  
$100  
Arriba-Flagler School  
Flagler  
*Riprap Gives Erosion a Nap*

Tanya Petach  
$100 (to be mailed)  
Fairview High School  
Boulder  
*Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors*

**Fort Collins Conservation District**

Devon Enke  
$50  
La Veta Jr/Sr High School  
La Veta  
*Mycorrhizal Symbiosis: Unlocking the Potential of Soil*

Nakayla Lestina  
$100  
Dove Creek High School  
Dove Creek  
*Biological Control of Tamarisk: Analyzing the Tamarisk Leaf*

**Frank Armbruster Foundation**  
**Charles Armbruster Memorial Award**

Ian Morrison & Michael Caro  
$100  
Brentwood Middle School  
Greeley  
*It’s Electric*
Hands and Minds, Inc.

Evan Hummel  
8th grade  
Student ½ Mariken Human Skeletal Model Kit (includes tools, clay and learning activities valued at $200)  
Blevins Middle School  
Fort Collins  
Can You Feel the Beat?

Human Factors and Ergonomics Society, Rocky Mountain Chapter

Reid Pulser  
7th grade  
$100  
Otis Jr/Sr High School  
Otis  
Submersible Vehicle Design and Modification  
Garrett Glissmann  
10th grade  
$100  
Boulder High School  
Boulder  
Leveraging the Twitter Platform for Mass Communication and Collection of Opinions

Institute of Electrical and Electronic Engineers, High Plans Section

Dylan Schlager  
8th grade  
$100  
Summit Middle School  
Boulder  
Internet through a Can???

Henry Shennan  
12th grade  
$150  
Fairview High School  
Boulder  
A 2.3m Dual Band Radio Telescope for Power Mapping and Line Spectra Observations

Little Shop of Physics

Matthew McCausland Memorial Awards

Emma Frantz  
7th grade  
$100  
North Middle School  
Colorado Springs  
The Effects of Magnetic Levitation on Friction Force  
Tucker Leavitt & Samuel Kater  
9th grade  
$100  
Animas High School  
Durango  
Electrostatic Power Amplification

Lockheed Martin

Emma Frantz  
7th grade  
$50  
North Middle School  
Colorado Springs  
The Effects of Magnetic Levitation on Friction Force  
Jesse Ellison  
12th grade  
$100  
Fairview High School  
Boulder  
Constructing a Novel Cage Molecule for Use in a Dye-Sensitized Solar Cell

Morris Animal Foundation

Randi Timmons  
9th grade  
$100 (to be mailed)  
Walsh Jr/Sr High School  
Walsh  
Upset Equine: Saving with Science  
Emily Schnoor  
12th grade  
$150 (to be mailed)  
Sargent Jr/Sr High School  
Monte Vista  
The Answer Is in the Solution  
Erik Schnaderbeck  
11th grade  
$150 (to be mailed)  
Sargent Jr/Sr High School  
Monte Vista  
Identifying Individual Rainbow Trout Utilizing Distinct Spot Orientation

MWH Americas, Inc.

Sustainable Future Awards

Ryan Mitchell & Drake Hammond  
8th grade  
Plaque, $100  
Cherry Creek Challenge School  
Denver  
How Much Are You Wasting?

Grant Yowell  
8th grade  
Plaque, $200  
Genoa-Hugo School  
Hugo  
Go Green with BioPlastics

Michael Lingus  
11th grade  
Plaque, $100  
Branson School  
Branson  
Going with the Wind: A Step Toward Alternative Energy

Christy Farnsworth  
12th grade  
Plaque, $200  
Paonia Jr/Sr High School  
Paonia  
A New Look of Alternative Energy

National Geophysical Data Center

David Ritzwoller  
8th grade  
$100 savings bond (to be mailed), certificate  
Summit Middle School  
Boulder  
Do Earthquakes in Colorado Follow the Gutenberg-Richter Law?

Optical Society of America

Rocky Mountain Section

Jessica O’Brien  
8th grade  
Certificate, 2-year subscription to Discover magazine  
Peak to Peak Charter School  
Lafayette  
Picture Perfect

Katelyn Yowell  
11th grade  
Certificate, 2-year subscription to Discover magazine  
Genoa-Hugo School  
Hugo  
Chlorophyll in Your Lip Balm?
Rio Tinto Minerals, Inc.

Jared Webster 6th grade
$75 (to be mailed)
Miller Middle School Durango
Effects of Road Salt on Plant Growth

Teisha Coffield 7th grade
$125 (to be mailed)
Lone Star School Otis
Rethinking De-Inking

Drew Auburger 9th grade
$75 (to be mailed)
Springfield Jr/Sr High School Springfield
KOH vs. NaHCO3: The Effects of Potassium Hydroxide vs. Baking Soda as Catalysts in a Hydrogen Electrolyzer

Miranda Parmer 12th grade
$125 (to be mailed)
Genoa-Hugo School Hugo
Fire Retardants: Worth While for the Home?

Seagate Technology & Science Buddies

Sophia Conrad 7th grade
Seagate’s Maxtor Black Armor 320 GB Storage Drive, opportunity to publish the project idea on Science Buddies website
Buchanan Middle School Wray
How to Make a Bouncing Polymer Ball

Ryan Famiglietti 7th grade
Seagate’s Maxtor Black Armor 320 GB Storage Drive, opportunity to publish the project idea on Science Buddies website
Cherry Creek Challenge School Denver
Garbage is Good: Gasification as Green Energy

SACNAS Colorado State University Chapter

Jennifer Jones 7th grade
$50 (to be mailed)
Weld Central Junior High School Keenesburg
Catching the Musca domestica: A Study of the Common House Fly and Trapping It with a Biodegradable, Eco-Friendly and Non-Hazardous Fly Trap

Xavier Eddy 7th grade
$50 (to be mailed)
Cortez Middle School Durango
The Hovercraft Project

Megan Perez 10th grade
$50 (to be mailed)
Del Norte High School Del Norte
The Hovercraft Project

Jaehee Park 11th grade
$50 (to be mailed)
Fairview High School Boulder
Using Steel Wool to Remove Arsenic from Drinking Water

Society for Mining, Metallurgy and Exploration Colorado Section

Torin McDonald 8th grade
$100, plaque
Summit Middle School Boulder
The Impact of a Coal Mine on Water Quality

Taylor Voilesky 8th grade
$200, plaque
Cherry Creek Challenge School Denver
The Physical Weathering of Rocks: The Freeze Thaw Cycle

Tanya Petach 11th grade
$100, plaque
Fairview High School Boulder
Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors

J. Raleigh Burt 12th grade
$200, plaque
Cherry Creek Challenge School Denver
Optimizing Energy Extraction and Water Conservation of Geothermal Heating Systems, Part II

Society of Manufacturing Engineers Colorado Chapter 354

Aidan Mike 8th grade
scholarship award valued as much as $600 (to be mailed), recognition by local chapter
North Middle School Colorado Springs
What’s the Point? A Ballistic Analysis of Arrowheads

Forrest Pieper & Robert Decker 12th grade
scholarship award valued as much as $600 (to be mailed), recognition by local chapter
Nederland Middle/Senior High School Nederland
Internal Stretcher Storage of Medical Oxygen for On-Site Emergency Treatment

Society of Women Engineers Rocky Mountain Section

Emma Frantz 7th grade
$75, certificate
North Middle School Colorado Springs
The Effects of Magnetic Levitation on Friction Force

Cecelia Brennan 8th grade
$100, certificate
Holy Family Catholic School Grand Junction
Revolutionizing Household Appliances

Christy Farnsworth 12th grade
$75, certificate
Paonia Jr/Sr High School Paonia
A New Look of Alternative Energy

Kelli Lynch 10th grade
$100, certificate
Rocky Mountain High School Fort Collins
Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms
Soil & Water Conservation Society
Colorado Chapter
Jessie McLaughlin & Erin McLaughlin 8th grade
$25, certificate, ribbon
Sacred Heart of Jesus School Boulder
*Irrigation Water Salinity and Its Effect on Early Plant Growth*
Devon Enke 8th grade
$50, certificate, ribbon
La Veta Jr/Sr High School La Veta
*Mycorrhizal Symbiosis: Unlocking the Potential of Soil*
Nakayla Lestina 10th grade
$25, certificate, ribbon
Dove Creek High School Dove Creek
*Biological Control of Tamarisk: Analyzing the Tamarisk Leaf*
Brisha Wakasugi 9th grade
$50, certificate, ribbon
Sierra Grande High School Blanca
*Kerber Creek Restoration Using Phytoremediation II: Understanding the Link Between Macroinvertebrate and Water Quality*
Lucia Guatney 11th grade
$100 (to be mailed)
Cherry Creek High School Greenwood Village
*The “Light” of Our Lives*

SPIE
The International Society for Optics and Photonics
Courtney Ensz 8th grade
$100 (to be mailed)
Hi-Plains Jr/Sr High School Seibert
*Solar Heat*
Jonah Archuleta 8th grade
$150 (to be mailed)
Goodnight School Pueblo
*Refraction Confection*
Nathanael Ramirez 8th grade
$250 (to be mailed)
Sargent Jr/Sr High School Monte Vista
*The “Light” of Our Lives*
Lucia Guatney 11th grade
$100 (to be mailed)
Cherry Creek High School Greenwood Village
*The Feasibility of Solar Light Pressure as a Means of Interstellar Propulsion*
Garrett Crownover 11th grade
$150 (to be mailed)
Plainview School Sheridan Lake
*Laptop Screen: Entertainment or Energy?*
Kelli Lynch 10th grade
$250 (to be mailed)
Rocky Mountain High School Fort Collins
*Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms*

The Inventors’ Roundtable
Forrest Pieper & Robert Decker 12th grade
$100, free patent search ($499 value)
Nederland Middle/Senior High School Nederland
*Internal Stretcher Storage of Medical Oxygen for On-Site Emergency Treatment*

United States Department of Commerce
Robin Betz 12th grade
alternate for the opportunity for summer employment with the Department of Commerce
Fairview High School Boulder
*Automated Image Reassembly with a Hybrid Genetic Algorithm*
Henry Shannan 12th grade
opportunity for summer employment with the Department of Commerce with the possibility for future employment
Fairview High School Boulder
*A 2.3m Dual Band Radio Telescope for Power Mapping and Line Spectra Observations*

United States Geological Survey
USGS Awards
Taylor Volesky 8th grade
reference book, mineral specimen
Cherry Creek Challenge School Denver
*The Physical Weathering of Rocks: The Freeze Thaw Cycle*
Casey Campbell 9th grade
reference book, mineral specimen
La Veta Jr/Sr High School La Veta
*Engineering a Path to Cleaner Water: Implementing the Phytoremediation of Coal Bed Methane*

University of Colorado Denver
Medical Scientist Training Program Awards
Radhika Rawat 12th grade
$50
Boulder High School Boulder
*Pre-Initiation Complexes of SREBP-1a and -2*
Connie Liu 11th grade
$50
Cherry Creek High School Greenwood Village
*Therapeutic Use of microRNA-200c to Treat HEY Ovarian Cancer*

University of Northern Colorado
MAST Institute Awards
Kyle Kihn 8th grade
$50
Nevin Platt Middle School Boulder
*Stopping the Spread of H1N1: A Computer Simulation*
Joshua Garcia 11th grade
$50
Monte Vista High School Monte Vista
*Are You Confined to a Life with Musical Disabilities?*

Wojtaszek Family
Paul Wojtaszek Memorial Award
Kelly Christensen & Molly McMahon 12th grade
$500 scholarship to a school of the student’s choosing
Monarch High School Louisville
*Generation of a RNA Probe for In Situ Hybridization*
# Xcel Energy

### Environmental Stewardship Awards

<table>
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<tr>
<th>Name</th>
<th>Grade</th>
<th>School</th>
<th>City</th>
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<tbody>
<tr>
<td>Grant Yowell</td>
<td>8th</td>
<td>Genoa-Hugo School</td>
<td>Hugo</td>
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<td>J. Raleigh Burt</td>
<td>12th</td>
<td>Sargent Jr/Sr High School</td>
<td>Monte Vista</td>
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<td>Sargent Jr/Sr High School</td>
<td></td>
<td>Optimizing Energy Extraction and Water Conservation of Geothermal Heating Systems, Part II</td>
<td>Monte Vista</td>
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### Innovation in Energy Awards

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<tr>
<th>Name</th>
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<th>School</th>
<th>City</th>
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</thead>
<tbody>
<tr>
<td>Morgan Felix</td>
<td>7th</td>
<td>Magnobile</td>
<td>Olathe</td>
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<td>Scott Martin</td>
<td>12th</td>
<td>Cherry Creek High School</td>
<td>Greenwood Village</td>
</tr>
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<td>Scott Martin</td>
<td>12th</td>
<td>Cherry Creek High School</td>
<td>Greenwood Village</td>
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</table>

### Yale University Science and Engineering Association

<table>
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<tr>
<th>Name</th>
<th>Grade</th>
<th>School</th>
<th>City</th>
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</thead>
<tbody>
<tr>
<td>John Parish IV</td>
<td>11th</td>
<td>Home Schooled</td>
<td>Colorado Springs</td>
</tr>
<tr>
<td>Julianna Manfredo</td>
<td>8th</td>
<td>Harrison School</td>
<td>Canon City</td>
</tr>
</tbody>
</table>

### Zonta Club of Boulder County

#### Amelia Earhart Award

- Julianna Manfredo
- Harrison School
- $100

### Scholarships

#### Adams State College

<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>School</th>
<th>City</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nakayla Lestina</td>
<td>10th</td>
<td>Dove Creek High School</td>
<td>Fort Collins</td>
</tr>
<tr>
<td>Joshua Garcia</td>
<td>11th</td>
<td>Monte Vista High School</td>
<td>Monte Vista</td>
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<tr>
<td>Katelyn Yowell</td>
<td>11th</td>
<td>Genoa-Hugo School</td>
<td>Hugo</td>
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<td>Johanna Phillips</td>
<td>10th</td>
<td>Montana High School</td>
<td>Bozeman</td>
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<tr>
<td>Michael Lingus</td>
<td>11th</td>
<td>Branson High School</td>
<td>Branson</td>
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<tr>
<td>Scott Martin</td>
<td>12th</td>
<td>Cherry Creek High School</td>
<td>Greenwood Village</td>
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<tr>
<td>Casey Campbell</td>
<td>9th</td>
<td>Del Norte High School</td>
<td>Del Norte</td>
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<tr>
<td>Ashlyne Miller</td>
<td>11th</td>
<td>Dove Creek High School</td>
<td>Fort Collins</td>
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<tr>
<td>Kelli Lynch</td>
<td>10th</td>
<td>Rocky Mountain High School</td>
<td>Fort Collins</td>
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<tr>
<td>Amy Lyne</td>
<td>11th</td>
<td>Brush High School</td>
<td>Fort Collins</td>
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<tr>
<td>Jordan Lestina</td>
<td>11th</td>
<td>Hogwarts High School</td>
<td>Hogwarts</td>
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<tr>
<td>Fletcher Richman &amp; Michael Schwener</td>
<td>12th</td>
<td>Basalt High School</td>
<td>Basalt</td>
</tr>
</tbody>
</table>

### Adams State College Scholarships

- Nakayla Lestina, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Monte Vista High School, *Infested Forests and Evapotranspiration II: Developing a Watershed Model*<br>  Michael Lingus, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Branson School, *Going with the Wind: A Step Toward Alternative Energy*<br>  Casey Campbell, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  La Veta Jr/Sr High School, *Engineering a Path to Cleaner Water: Implementing the Phytoremediation of Coal Bed Methane*<br>  Megan Perez, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Del Norte High School, *The Hovercraft Project*<br>  Ashlyne Miller, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Lone Star School, *Determination of Fractal Dimension of Blood Spatter Patterns*<br>  Jessica O’Clair, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Brush High School, *The Effect of Ultraviolet Light on Vitamin C Content in Strawberries*<br>  Kelli Lynch, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Rocky Mountain High School, *Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms*<br>  Amy Lyne, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Brush High School, *Investigation of Wave Phenomenon*<br>  Jordan Lestina, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Dove Creek High School, *Biodiesel from Sunflowers: An Analysis of Planting Dates, Soil Temperature and Oil Content*<br>  Fletcher Richman & Michael Schwener, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Basalt High School, *pH Effects on the Enzyme Cellulase in Biofuel Production*<br>  Katelyn Yowell, equivalent to one-year resident tuition and fees (approximately $5,000).<br>  Genoa-Hugo School, *Chlorophyll in Your Lip Balm?*
Colorado School of Mines
Colorado School of Mines Scholarships

Jaehee Park 11th grade
$1,000 renewable undergraduate scholarship
Fairview High School Boulder
Using Steel Wool to Remove Arsenic from Drinking Water

Tanya Petach 11th grade
$1,000 renewable undergraduate scholarship
Fairview High School Boulder
Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors

Michael Lingus 11th grade
$1,000 renewable undergraduate scholarship
Branson School Branson
Going with the Wind: A Step Toward Alternative Energy

Ashlyrne Miller 11th grade
$1,000 renewable undergraduate scholarship
Lone Star School Otis
Determination of Fractal Dimension of Blood Spatter Patterns

Propst Scholarships
Propst Medicine & Health Scholarship
Kelli Lynch 10th grade
$3,000 nonrenewable scholarship to school of choice
Rocky Mountain High School Fort Collins
Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms

Propst Moving Science Forward Scholarships
Nikki Buhrdorf 10th grade
$1,000 nonrenewable scholarship to school of choice
Hotchkiss High School Hotchkiss
Aspen in a State of SADness: A Statistical Analysis of the Decline of Populus tremuloides

Ben Armstrong 12th grade
$1,000 nonrenewable scholarship to school of choice
Monte Vista High School Monte Vista
The Uptake of Endocrine Disrupting Chemicals

Intel Foundation
Ryan Patterson Scholarship
Kerry Betz 12th grade
$2,000 nonrenewable scholarship to school of choice
Fairview High School Boulder
Constructing a Novel Cage Molecule for Use in a Dye-Sensitized Solar Cell

Intel Foundation
Teacher of the Year Award
James DePue
$3,000 grant – sponsored by Lockheed Martin
Wray High School Wray

Professional Association of Colorado Educators

Mary Klass
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
Preston Middle School Fort Collins

Karl Donelson
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
Otis Jr/Sr High School Otis

John Wiley
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
Cherry Creek Challenge School Denver

Don Anderson
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
Sacred Heart of Jesus School Boulder

Greg Busby
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
North Middle School Colorado Springs

Doug Horton
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
Hotchkiss High School Hotchkiss

Laura Duncan
scholarship to attend a Space Foundation professional development workshop of choice during summer 2010
Boulder High School Boulder

Society for Science & the Public

American Psychological Association
Achievement in Psychological Science Award
Sarah Oden 11th grade
certificate
Monte Vista High School Monte Vista
Human Perception: A Study on Implicit Prejudice

Intel Corporation
Excellence in Computer Science Award
John Parish IV 11th grade
certificate, $200 (to be mailed later)
Home Schooled Colorado Springs
Closer to Where It Wasn’t: Estimation and Tracking Using Adaptive Filtering
National High School & Two-Year College
Mathematics Honor Society
Mu Alpha Theta Award

John Parish IV 11th grade
certificate
Home Schooled Colorado Springs
Closer to Where It Wasn’t: Estimation and Tracking Using Adaptive Filtering

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

Jessica Constant 9th grade
certificate, medallion
Poudre High School Fort Collins
Computer Modeling III: An Eulerian Simulation Model of Particulate Dispersion in the Atmosphere

National Society of Professional Engineers
Innovative Engineering Award

Christy Farnsworth 12th grade
certificate, lapel pin
Paonia Jr/Sr High School Paonia
A New Look of Alternative Energy

Ricoh
Ricoh Sustainability Development Award

Melinda Vickers 8th grade
certificate
Eagle County Charter Academy Edwards
A Burning Question

Society for In Vitro Biology
Outstanding Achievement for Ability and Creativity in In Vitro Biology Award

Harraz MohdReza 11th grade
certificate
Union Colony Preparatory School Greeley
Immunocytochemical Characterization of Mouse Brain Explants in an In Vitro Model of Schizophrenia

United States Metric Association
Best Use of the International System of Units Award

Brisha Wakasugi 9th grade
certificate
Sierra Grande High School Blanca
Kerber Creek Restoration Using Phytoremediation II: Understanding the Link Between Macroinvertebrate and Water Quality

United States Public Health Service
The Surgeon General’s Challenge

Megan Percy 7th grade
certificate
The Classical Academy Colorado Springs
The Best Thing Since Fresh Fruit

Water Environment Federation
Stockholm Junior Water Prize

Kelli Lynch 10th grade
Certificate, nomination to the state SJWP competition (please note the April 15th deadline!)
Rocky Mountain High School Fort Collins
Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms

Ben Armstrong 12th grade
Certificate, nomination to the state SJWP competition (please note the April 15th deadline!)
Monte Vista High School Monte Vista
The Uptake of Endocrine Disrupting Chemicals