Press Release

Colorado Science and Engineering Fair
For Colorado Students in Grades 6 - 12
Hosted by the Center for Science, Mathematics & Technology Education

April 10 - 12, 2008
in the Lory Student Center
at Colorado State University
Fort Collins, Colorado
<table>
<thead>
<tr>
<th>Junior Division</th>
<th>Best Individual Project</th>
<th>Honorable Mention</th>
<th>Senior Division</th>
<th>Best Team Project</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Place</strong> Molly Graber</td>
<td>8th grade</td>
<td><strong>First Place</strong> Danielle Pite, Kelly Lane &amp; Anna Hermann</td>
<td>12th grade</td>
<td><strong>First Place</strong> Danielle Pite, Kelly Lane &amp; Anna Hermann</td>
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<tr>
<td><em>The Effects of Bovine Colostrum on Breast Cancer</em></td>
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<td><em>Didymosphenia geminata: The Core Question</em></td>
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<tr>
<td>North Middle School</td>
<td>Colorado Springs</td>
<td>Boulder High School</td>
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<tr>
<td><strong>Second Place</strong> Zane Willburn</td>
<td>7th grade</td>
<td><strong>Second Place</strong> Anika Petach &amp; Tanya Petach</td>
<td>9th grade</td>
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<tr>
<td><em>Water Purification off the Grid</em></td>
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<td><em>Pine Beetle Outbreaks: Spatial Analysis and Pheromone Population Control</em></td>
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<td>Mancos Middle School</td>
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<td>Fairview High School</td>
<td>Boulder</td>
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<tr>
<td><strong>Third Place</strong> Garret Cerny</td>
<td>6th grade</td>
<td><strong>Third Place</strong> Julia Buzan &amp; Joseph Smith</td>
<td>12th grade</td>
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<td><em>Is It Easier to Always Be Right?</em></td>
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<td>Eagle County Carter Academy</td>
<td>Wolcott</td>
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</thead>
<tbody>
<tr>
<td><strong>First Place</strong> Gwyneth Glissmann</td>
<td>11th grade</td>
<td><strong>First Place</strong> Nakayla Lestina</td>
<td>8th grade</td>
<td><strong>First Place</strong> Nakayla Lestina</td>
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<tr>
<td><em>Analyzing Arctic Solar Flux and Ice Extent Loss Projections</em></td>
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<td><em>Biological Control of Canada Thistle Phase 2 Analyzing the Spread of Three Natural Insect Enemies</em></td>
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<tr>
<td>Peak to Peak Charter School</td>
<td>Lafayette</td>
<td>Dove Creek Middle School</td>
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<tr>
<td><strong>Second Place</strong> Sarah Guthrie</td>
<td>11th grade</td>
<td><strong>Second Place</strong> Wyatt Palser</td>
<td>7th grade</td>
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<tr>
<td><em>The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro</em></td>
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<td><em>Attack of the Killer Worms!!!</em></td>
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<td>Boulder High School</td>
<td>Boulder</td>
<td>Otis Jr/Sr High School</td>
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<tr>
<td><strong>Third Place</strong> Ben Armstrong</td>
<td>10th grade</td>
<td><strong>Third Place</strong> Sarah Reed</td>
<td>8th grade</td>
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<tr>
<td><em>Enemies of the Environment: Estrogen Mimics</em></td>
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<td><em>Supersize Me! The Effect of Junk Food on Mice</em></td>
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<tr>
<td>Monte Vista High School</td>
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<td>Summit Middle School</td>
<td>Boulder</td>
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<th>Animal Sciences</th>
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</thead>
<tbody>
<tr>
<td><strong>First Place</strong> Loren Koszowski &amp; Anna Mellman</td>
<td>7th grade</td>
<td><strong>First Place</strong> Tonya Pavleko &amp; Laura Gudvangen</td>
<td>9th grade</td>
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<tr>
<td><em>Who Would You Rather Kiss?</em></td>
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<td><em>The Superbug: How It Spreads</em></td>
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<td>Stanley British Primary School</td>
<td>Denver</td>
<td>Palmer High School</td>
<td>Colorado Springs</td>
<td>Palmer High School</td>
</tr>
<tr>
<td><strong>Second Place</strong> Claire Derr &amp; Allison Gudvangen</td>
<td>7th grade</td>
<td><strong>Second Place</strong> Rennie Winkelman</td>
<td>8th grade</td>
<td><strong>Second Place</strong> Rennie Winkelman</td>
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<tr>
<td><em>Fill Up Not Freeze Up</em></td>
<td></td>
<td><em>What Size of Sand Does the Aquatic Worm T. tubifex Prefer?</em></td>
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<td>North Middle School</td>
<td>Colorado Springs</td>
<td>Blevins Junior High School</td>
<td>Fort Collins</td>
<td>Blevins Junior High School</td>
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<td>Senior Division</td>
<td>Animal Sciences</td>
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<tr>
<td><strong>First Place</strong></td>
<td>Lindsey Denison</td>
<td>11th grade</td>
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<tr>
<td><em>The Onion Thrip Trick</em></td>
<td>Paonia Jr/Sr High School</td>
<td>Paonia</td>
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<tr>
<td><strong>Second Place</strong></td>
<td>Connie Liu</td>
<td>9th grade</td>
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<tr>
<td><em>Classification and Evolutionary Biology of Solifugids by Rostrum</em></td>
<td>Cherry Creek High School</td>
<td>Greenwood Village</td>
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<tr>
<td><strong>Third Place</strong></td>
<td>Brandy Haller</td>
<td>10th grade</td>
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<tr>
<td><em>Comparison of Mountain Pine Beetle in Colorado and Surrounding States</em></td>
<td>Woodlin School</td>
<td>Woodrow</td>
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<td><em>Is It Easier to Always Be Right?</em></td>
<td>Eagle County Carter Academy</td>
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<tr>
<td><strong>Second Place</strong></td>
<td>Zachary Tanner</td>
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<tr>
<td><em>Rock, Paper, Scissors: A Game of Chance?</em></td>
<td>Summit Middle School</td>
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<tr>
<td><strong>Third Place</strong></td>
<td>Diane Schulze</td>
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<tr>
<td><em>Monkey See, Monkey Do: Literary Imagery and the Mirror Neuron System</em></td>
<td>Cherry Creek Challenge School</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Dante Carter</td>
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<tr>
<td><em>Does Music Affect Test Scores?</em></td>
<td>North Middle School</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Dirk Marshall</td>
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<tr>
<td><em>The Eyes Have It: Do Your Eyes Show Your Personality?</em></td>
<td>Cherry Creek Challenge School</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Codi Inloes-Williams</td>
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<tr>
<td><em>Making Cents of H2O</em></td>
<td>Timberview Middle School</td>
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<td><strong>First Place</strong></td>
<td>Sarah Oden</td>
</tr>
<tr>
<td><em>Insight in Sight, This Art Is All Right</em></td>
<td>Monte Vista High School</td>
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<tr>
<td><strong>Second Place</strong></td>
<td>Leela Khanna</td>
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<tr>
<td><em>Brainwave Coherence: Developing the Full Potential of the Brain</em></td>
<td>Palmer High School</td>
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<tr>
<td><strong>Third Place</strong></td>
<td>Allie Martin</td>
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<tr>
<td><em>The Task At Hand: Is Multitasking Affecting Our Health and Productivity?</em></td>
<td>Woodlin School</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Rachel Kelley</td>
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<tr>
<td><em>Characteristics Common to Homeless Youth Pursuing the GED Certification</em></td>
<td>Cherry Creek High School</td>
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<tr>
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<tr>
<td><strong>First Place</strong></td>
<td>Kelsey Piper</td>
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<tr>
<td><em>Going Bananas: Does the Vitamin C Concentration of a Banana Vary with Ripeness?</em></td>
<td>Summit Middle School</td>
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<tr>
<td><strong>Second Place</strong></td>
<td>Kassidy Knutson</td>
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<tr>
<td><em>Effects of Acid Rain on Structural Materials</em></td>
<td>Wiggins Jr/Sr High School</td>
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</tbody>
</table>
Third Place
Kole Van Treese 7th grade
Difference in Diesel
Sargent Jr/Sr High School Monte Vista

Honorable Mention
Iris Belensky 8th grade
New and More Energy Efficient Ways to Cure Polymer Clay
Summit Middle School Boulder

Honorable Mention
Tess Ringlein 6th grade
Pucker Up to Poison
Yuma Middle School Yuma

Honorable Mention
Justin Lewton 8th grade
Homegrown Biodiesel the Way to Go?
Weld Central Junior High School Keenesburg

Team Nomination
Claire Derr & Allison Gudvangen 7th grade
Fill Up Not Freeze Up
North Middle School Colorado Springs

Second Place
Sarah Guthrie 11th grade
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro
Boulder High School Boulder

Second Place
Bradley Falk 12th grade
Chemical Comparison of the Relative Efficiency of the 2-Hydroxymethylphenol Synthesis of Aspirin
Cherry Creek High School Greenwood Village

Third Place
Travis Zuniga 9th grade
The Wonder Drug (A Chemical Analysis of Analgesics to Detect Aspirin)
South High School Pueblo

Honorable Mention
Lisa Grossman 12th grade
Synthetic vs. Natural Vitamin E: Optical Isomerism, Synergy and Antioxidant Testing Problems
Palmer High School Colorado Springs

Senior Division
Earth & Space Sciences

First Place
Gwyneth Glissmann 11th grade
Analyzing Arctic Solar Flux and Ice Extent Loss Projections
Peak to Peak Charter School Lafayette

Second Place
Tawney Bleak 9th grade
S.O.S. 2 - Save Our Soil, Phase Two
Otis Jr/Sr High School Otis

Third Place
Christopher Krause 10th grade
Caution: Urbanization May Be Hot!
The Classical Academy Colorado Springs

Honorable Mention
Bryant Elrick 11th grade
Just Passing Through
Arriba-Flagler Public School Flagler

Junior Division
Earth & Space Sciences

First Place
Sara Cunningham 6th grade
Crystals
Our Lady of Fatima School Lakewood

Second Place
Katie Weiss 8th grade
The effect of fermentation on fruit
The Ricks Center for Gifted and Talented Denver

Third Place
Jenifer Bushnell & Kelsey Rohlfing 7th grade
Do Your Rocks Need Sunscreen?
Irving Middle School Colorado Springs

Fourth Place
John Ackerman 10th grade
The Effects of Temperature on the Growth of Soil Bacteria
North Middle School Colorado Springs

Honorable Mention
Lisa Summa 8th grade
The Importance of Soil FREEZE PREFERENCES
North Middle School Colorado Springs

Second Place
Katreya Hunsaker 9th grade
The Effects of Temperature on the Growth of Soil Bacteria
North Middle School Colorado Springs

Junior Division
Chemistry

First Place
Sarah Guthrie 11th grade
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro
Boulder High School Boulder

Second Place
Bradley Falk 12th grade
Chemical Comparison of the Relative Efficiency of the 2-Hydroxymethylphenol Synthesis of Aspirin
Cherry Creek High School Greenwood Village

Third Place
Travis Zuniga 9th grade
The Wonder Drug (A Chemical Analysis of Analgesics to Detect Aspirin)
South High School Pueblo

Honorable Mention
Lisa Grossman 12th grade
Synthetic vs. Natural Vitamin E: Optical Isomerism, Synergy and Antioxidant Testing Problems
Palmer High School Colorado Springs

Junior Division
Energy & Transportation

First Place
Sara Volz 7th grade
Are Biodiesel Emissions Safer Than Commercial Diesel Emissions?
Cheyenne Mountain Charter Academy Colorado Springs

Second Place
Katie Weiss 8th grade
The effect of fermentation on fruit
The Ricks Center for Gifted and Talented Denver

Junior Division
Earth & Space Sciences

First Place
Gwyneth Glissmann 11th grade
Analyzing Arctic Solar Flux and Ice Extent Loss Projections
Peak to Peak Charter School Lafayette

Second Place
Tawney Bleak 9th grade
S.O.S. 2 - Save Our Soil, Phase Two
Otis Jr/Sr High School Otis

Third Place
Christopher Krause 10th grade
Caution: Urbanization May Be Hot!
The Classical Academy Colorado Springs

Honorable Mention
Bryant Elrick 11th grade
Just Passing Through
Arriba-Flagler Public School Flagler

Junior Division
Energy & Transportation

First Place
Sara Volz 7th grade
Are Biodiesel Emissions Safer Than Commercial Diesel Emissions?
Cheyenne Mountain Charter Academy Colorado Springs

Second Place
Katie Weiss 8th grade
The effect of fermentation on fruit
The Ricks Center for Gifted and Talented Denver
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<tr>
<td>Andrew West</td>
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<tr>
<td>Regenerative Diesel Fuel Production Utilizing Vegetable Oil and Catalytic Hydrocracking</td>
<td>Conifer High School Conifer</td>
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<td><strong>Second Place</strong></td>
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<td>Max Krakauer</td>
<td>12th grade</td>
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<td>Testing the Effects of Gasoline, E-85 Gasoline Mix, and 2,5-Dimethylfuran on Saccharomyces cerevisia</td>
<td>Palmer High School Colorado Springs</td>
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<td><strong>Third Place</strong></td>
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<td>Joline Lobato</td>
<td>12th grade</td>
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<td>Solar Powered Sand Beds and Other Heat Transfer Sources</td>
<td>Antonito High School Antonito</td>
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<td>Christy Farnsworth</td>
<td>10th grade</td>
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<td>Hydrogen: It's All Down Hill</td>
<td>Paonia Jr/Sr High School Paonia</td>
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<td>Garrett Glissmann</td>
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<td>Determining Position by Interfacing a GPS to the Web</td>
<td>Peak to Peak Charter School Lafayette</td>
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<td>Jeffrey King</td>
<td>6th grade</td>
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<td>Wing Designs: Who's at the Top?</td>
<td>Timberview Middle School Colorado Springs</td>
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<td>Alexander Major</td>
<td>8th grade</td>
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<tr>
<td>Is AgriBlend the Answer?</td>
<td>Fowler Jr/Sr High School Fowler</td>
</tr>
</tbody>
</table>
Honorable Mention
Emily Walck 7th grade
_Washing Water to Ta'nanigiz_
Cortez Middle School Cortez

Team Nomination
Matthew Mandelski & Zofie Mandelski 7th grade
_The Healthiest Spirogyra_
St. Columba School Durango

Senior Division
Environmental Sciences

First Place
Ben Armstrong 10th grade
_Enemies Of The Environment: Estrogen Mimics_
Monte Vista High School Monte Vista

Second Place
Caleb Kruse 10th grade
_C The Difference II: The Effect of Ascorbic Acid on Zoosxanthellal Density During Coral Bleaching_
Home School Colorado Springs

Third Place
Alex Schnaderbeck 12th grade
_The Effects of Limestone on the Productivity of Aquatic Invertebrates_
Sargent Jr/Sr High School Monte Vista

Honorable Mention
Grant Slinger 11th grade
_Effects of Soil Type on Groundwater Contamination, Phase II_
Stratton High School Stratton

Team Nomination
Molly Nelson 9th grade
Jason Carwin 9th grade
_The Effects of Elevated CO₂ Levels on Plants in Different Environments_
Fleming High School Fleming

Junior Division
Medicine & Health

First Place
Molly Graber 8th grade
_The Effects of Bovine Colostrum on Breast Cancer_
North Middle School Colorado Springs

Second Place
Bruno Mediate 7th grade
_Cheewing Gum for Brain Activity_
The Classical Academy Colorado Springs

Third Place
Amanda Coopersmith 7th grade
_The Effects of Over the Counter Medication on Fruit Flies_
Cherry Creek Challenge School Denver

Honorable Mention
Katie Braun 8th grade
_Can You Hear Me, Now?_
Boltz Junior High School Fort Collins

Honorable Mention
Tanner Elliott 8th grade
_Got Germs?_
Cortez Middle School Cortez
Honorable Mention
Sydney Hooton 7th grade
*A Wormy Situation: The Effect of Diet Pills on Caenorhabditis elegans*
Merino Jr/Sr High School Merino

Honorable Mention
Adam Warren 8th grade
*Music to Your Ears: A Study of Headphone Types, dB Levels, and the Risk of Potential Hearing Loss*
The Classical Academy Colorado Springs

Honorable Mention
Kelli Lynch 8th grade
*What’s in Your Wallet?*
Blevins Junior High School Ft. Collins

Honorable Mention
Kendra Gomez & Alixx Vigil 7th grade
*Cash, Credit, Coins*
Pueblo School for Arts and Sciences Pueblo

Team Nomination
Loren Koszowski & Anna Mellman 7th grade
*Who Would You Rather Kiss?*
Stanley British Primary School Denver

First Place
Rishi Rawat 12th grade
*Differential Expression of BCL-2 proteins in U2OS: A Look at What Really Kills Cancer*
Boulder High School Boulder

Second Place
Kelsey Martin 10th grade
*BONE BACK: Statins Inhibit Osteosarcoma Cells’ Growth and Metastasis*
Woodlin School Woodrow

Third Place
Katelyn Yowell 9th grade
*The Effects of Anthocyanins on Planaria Regeneration*
Genoa-Hugo School Hugo

Honorable Mention
Chace Carver 11th grade
*The Effects of Bisphenol A from Polycarbonate Plastics on Lumbriculus variegatus*
Merino Jr/Sr High School Merino

Team Nomination
Tonya Pavlekno & Laura Gudvangen 9th grade
*The Superbug: How It Spreads*
Palmer High School Colorado Springs

Team Nomination
Julia Buzan & Joseph Smith 12th grade
*Determining A Non-Contact Method for Testing Skin Elasticity and Density*
Cherry Creek High School Greenwood Village

First Place
Ellery Goeltzenleuchter 8th grade
*Caution Spice at Work*
Blevins Junior High School Fort Collins

Second Place
Stephen O’Connor-Seville 8th grade
*Microbes Make Electricity*
Dolores Middle School Dolores

Third Place
Alexis Shinn 7th grade
*Bacteria Is It What’s for Dinner? Bacterial Growth on Grocery Store Produce*
Merino Jr/Sr High School Merino

Honorable Mention
Austin Titus 8th grade
*What Are the Effects of Certain Cleaners on Bacteria?*
Buchanan Middle School Wray

Honorable Mention
Dakota Jackson 7th grade
*The Effect of Temperature on Bacteria Growth*
Russell Middle School Colorado Springs

Honorable Mention
Kelli Lynch 8th grade
*Does Temperature Effect the Growth of Mold on Bread?*
Genoa-Hugo School Hugo

Team Nomination
Kendra Gomez & Alixx Vigil 7th grade
*Cash, Credit, Coins*
Pueblo School for Arts and Sciences Pueblo

Team Nomination
Loren Koszowski & Anna Mellman 7th grade
*Who Would You Rather Kiss?*
Stanley British Primary School Denver

First Place
Kelsey Moore 12th grade
*HIV-1 and Endothelial Progenitor Cell Dysfunction*
Monarch High School Louisville

Second Place
Adwai Eswaran 10th grade
*Elimination of E. coli Bacteria from the Standard Cotton Dishrag by Exposure to Microwaves*
Cherry Creek High School Greenwood Village

Third Place
Krista Kinkel 10th grade
*Ring Ring Bacteria Calling! How Much Bacteria Do You Think Is on Your Phone? Do You Dare Find Out?*
Arriba-Flagler Public School Flagler

Honorable Mention
Erika Baker 10th grade
*Eye Can't See Clearly Now! A Comparison Study of Contact Types with E. coli and S. epidermidis*
Merino Jr/Sr High School Merino
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<th>Physics</th>
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<tr>
<td><strong>First Place</strong></td>
<td>Lorne Muir II 8th grade</td>
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<tr>
<td>1st Place</td>
<td><em>Hail! No!</em></td>
</tr>
<tr>
<td>2nd Place</td>
<td>Layne Barrett 8th grade</td>
</tr>
<tr>
<td>3rd Place</td>
<td>Aidan Mike 6th grade</td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Ellie Gossage 7th grade</td>
</tr>
<tr>
<td></td>
<td><em>Can You Hear Me Now? The Effect of Perimeter Boards on Sound Volume</em></td>
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<tr>
<td></td>
<td>East Middle School</td>
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<tr>
<td></td>
<td><em>Get the Point?</em></td>
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<td></td>
<td>Sargent Jr/Sr High School</td>
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<td><em>Wingin' It Density Altitude's Effect on Lift</em></td>
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<td>St. Columba Middle School</td>
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<td></td>
<td><em>The Perfect Turn</em></td>
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<td>Summit Middle School</td>
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<table>
<thead>
<tr>
<th>Senior Division</th>
<th>Plant Sciences</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Place</strong></td>
<td>Marlena Widman 10th grade</td>
</tr>
<tr>
<td>1st Place</td>
<td><em>Junkyard Multispectral Imaging</em></td>
</tr>
<tr>
<td></td>
<td>The Classical Academy</td>
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<td></td>
<td>Colorado Springs</td>
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<td><em>Finding a Biomarker of Physiological Ageing in Potato Seed Tubers</em></td>
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<td>Monte Vista High School</td>
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<td><em>Power of a Biological Control Agent: Compensation Suppression of Convolvulus arvensis Implementing Host-Specific Aceria malherbae - Phase IV</em></td>
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<td>Branson School</td>
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<td><em>Biodiesel from Sunflower Oil - An Analysis of Soil Fertility and Sunflower Oil Content</em></td>
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<td>Dove Creek High School</td>
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<table>
<thead>
<tr>
<th>Junior Division</th>
<th>Plant Sciences</th>
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<tbody>
<tr>
<td><strong>Second Place</strong></td>
<td>Kaitlyn Lingus 12th grade</td>
</tr>
<tr>
<td>2nd Place</td>
<td><em>Power of a Biological Control Agent: Compensation Suppression of Convolvulus arvensis Implementing Host-Specific Aceria malherbae - Phase IV</em></td>
</tr>
<tr>
<td></td>
<td>Branson School</td>
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<td></td>
<td><em>Biodiesel from Sunflower Oil - An Analysis of Soil Fertility and Sunflower Oil Content</em></td>
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<td>Dove Creek High School</td>
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<tr>
<td>Honorable Mention</td>
<td>Team Nomination</td>
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<td>------------------</td>
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<tr>
<td>Delani Miller</td>
<td>Anika Petach</td>
</tr>
<tr>
<td>9th grade</td>
<td>11th grade</td>
</tr>
<tr>
<td><em>Monarch Mitigation: What Soil Does Milkweed Germinate in the Best?</em></td>
<td>Tanya Petach</td>
</tr>
<tr>
<td>Blevins Junior High School</td>
<td>9th grade</td>
</tr>
<tr>
<td>Fort Collins</td>
<td>Fairview High School</td>
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2008 Colorado Science and Engineering Fair
Special Awards Press Release

Colorado Science and Engineering Fair

Ralph Desch Memorial Technical Writing Award
Sarah Guthrie 11th grade
Boulder High School Boulder
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro

Poster Art Contest
Boya Liu certificate, $100
Fairview High School Boulder

Student Choice Award
Heather Hilson 8th grade
certificate, $50
Summit Middle School Boulder
A Century in the Life of Trees

Pioneers of Science – Georges LCF Cuvier
Brianna Honebein 7th grade
certificate, $30
Ward Middle School Ordway

Pioneers of Science – Margaret Mead
Dirk Marshall 7th grade
certificate, $30
Cherry Creek Challenge School Denver
The Eyes Have It: Do Your Eyes Show Your Personality?

Pioneers of Science – Sigmund Freud
Lizette van Zyl 8th grade
certificate, $30
Boltz Junior High School Fort Collins
Reading in Colors

Pioneers of Science – Alfred Bernhard
Melissa Poet 7th grade
certificate, $30
Arriba-Flagler Public School Flagler
Got ‘Acidity’ Milk?

Pioneers of Science – Marie Curie
Tanner Dunivan 7th grade
certificate, $30
Walsh Jr/Sr High School Walsh
Up in Flames

Pioneers of Science – Edwin Hubble
Isaac Beverlin 6th grade
certificate, $30
ARCHES: Solid Rock to Windows in Time

Pioneers of Science – Alfred Lothar Wegener
Antonio Huizar 6th grade
certificate, $30
Craters & Meteors: How a Meteor's Weight Affects the Crater

Pioneers of Science – James Prescott Joule
Jessika Gill 7th grade
certificate, $30

Pioneers of Science – Sir William Grove
Kayla Boren 6th grade
certificate, $30
Burn It Up - Measuring Fuel Efficiency in Manure

Pioneers of Science – Nicola Tesla
Ken Garcia 8th grade
certificate, $30
Magnetic Levitation

Pioneers of Science – James Buchanan Eads
Joshua Steklac 8th grade
certificate, $30
Investigating the Magnus Effect Phenomenon

Pioneers of Science – Rachel Louise Carson
Chayenne Jackson 7th grade
certificate, $30
Is Your Water Glowing? Water Analysis of Colorado

Pioneers of Science – Charles Babbage
Carlos Nunez 6th grade
certificate, $30
The Power Within: Conventional vs. Non-Conventional Cancer Treatment

Pioneers of Science – GV Black
Devon Montague 7th grade
certificate, $30
Diabetes the Sweet Disease

Pioneers of Science – Albert Schweitzer
Kaley Kukus 7th grade
certificate, $30
Got Protein?
Pioneers of Science – Jonas Edward Salk
Layne McCaleb 6th grade
certificate, $30
Arickaree School Anton
*Purell, Does It Really Kill 99.99% Bacteria?*

Pioneers of Science – Albert Einstein
Dayton Fisher 6th grade
certificate, $30
Yuma Middle School Yuma
*Vary the Viscosities of Crude Oil*

Pioneers of Science – Max Planck
Andrew Haines 6th grade
certificate, $30
North Middle School Colorado Springs
*Materiais That Can Shield Sound*

Pioneers of Science – Sir Isaac Newton
Rachael Gessert 6th grade
certificate, $30
West Jefferson Middle School Conifer
*The Science Behind CSI: Blood Drop Patterns and Angle of Impact*

Pioneers of Science – Luthar Burbank
Madison Dewey 6th grade
certificate, $30
North Middle School Colorado Springs
*Lettuce Taste the Difference*

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**United States Air Force**

**Air Force ROTC Award**

Sarah Rumbley 12th grade
certificate, pad folio, WiFi hotspot finder, USB flash drive, ballpoint pen, messenger bag
Peak to Peak Charter School Lafayette
*Polarimetry with Laser-Illuminated Digital Holography*

Devyn Shafer 12th grade
certificate, pad folio, WiFi hotspot finder, USB flash drive, ballpoint pen, messenger bag
Peak to Peak Charter School Lafayette
*Rocketry: Does Size Matter?*

---

**United States Navy & Marine Corps**

Erin Biringen 8th grade
certificate, medallion
Summit Middle School Boulder
*The Perfect Turn*

Shannon Craig 7th grade
certificate, medallion
West Jefferson Middle School Conifer
*The Statistics on Statistics*

Zane Willburn 7th grade
certificate, medallion
Mancos Middle School Mancos
*Water Purification off the Grid*

Elliott Saslow 7th grade
certificate, medallion
Colorado Virtual Academy (Home School) Durango
*The Best Way to Grow Tomato and Pepper Plants: Hydroponics with River Water or Tap Water*

Samuel Galler 12th grade
certificate, $75 gift certificate, medallion
Boulder High School Boulder
*Hemispheric Lateralization in Auditory Cortex for Words Versus Partial Speech Sounds*

---

**Military**

**United States Army**

Bethany Dilda 10th grade
certificate, $50 US savings bond
Branson School Branson
*The Golden Ratio in Natural Adaptations*

Jake McLhargue 9th grade
certificate, $50 US savings bond
Lake County High School Leadville
*Thermite . . . Might Not*

Grant Slinger 11th grade
certificate, $50 US savings bond
Stratton High School Stratton
*Effects of Soil Type on Groundwater Contamination, Phase II*

Cameron Kruse 12th grade
certificate, $50 US savings bond
Home School Colorado Springs
*The Dirt on Baseball: Engineering a Path Toward Standardizing the Baseball Mudding Process*

Antonia Lira 10th grade
certificate, silver medallion, $100 US savings bond
Lamar High School Lamar
*Pig-In-A-Blanket*

---

**United States Army**

Sarah Rumbley 12th grade
certificate, $50 US savings bond
Branson School Branson
*The Golden Ratio in Natural Adaptations*

---

**Military**

**United States Air Force**

Air Force ROTC Award

Sarah Rumbley 12th grade
certificate, pad folio, WiFi hotspot finder, USB flash drive, ballpoint pen, messenger bag
Peak to Peak Charter School Lafayette
*Polarimetry with Laser-Illuminated Digital Holography*

Devyn Shafer 12th grade
certificate, pad folio, WiFi hotspot finder, USB flash drive, ballpoint pen, messenger bag
Peak to Peak Charter School Lafayette
*Rocketry: Does Size Matter?*

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**United States Navy & Marine Corps**

Erin Biringen 8th grade
certificate, medallion
Summit Middle School Boulder
*The Perfect Turn*

Shannon Craig 7th grade
certificate, medallion
West Jefferson Middle School Conifer
*The Statistics on Statistics*

Zane Willburn 7th grade
certificate, medallion
Mancos Middle School Mancos
*Water Purification off the Grid*

Elliott Saslow 7th grade
certificate, medallion
Colorado Virtual Academy (Home School) Durango
*The Best Way to Grow Tomato and Pepper Plants: Hydroponics with River Water or Tap Water*

Samuel Galler 12th grade
certificate, $75 gift certificate, medallion
Boulder High School Boulder
*Hemispheric Lateralization in Auditory Cortex for Words Versus Partial Speech Sounds*

Chelsea Oden 12th grade
certificate, $75 gift certificate, medallion
Monte Vista High School Monte Vista
*The Probability of Me*

Max Krakauer 12th grade
certificate, $75 gift certificate, medallion
Palmer High School Colorado Springs
*Testing the Effects of Gasoline, E-85 Gasoline Mix, and 2,5-Dimethylyfuran on Saccharomyces cerevisia*
Organizational

Air & Waste Management Association
Rocky Mountain States Section
Sara Volz 7th grade
Cheyenne Mountain Charter School Colorado Springs
$20
Are Biodiesel Emissions Safer Than Commercial Diesel Emissions?

Jessica Constant 7th grade
Saint Joseph Catholic School Fort Collins
$50
Yours, Mine, and Ours: A Basic Model of the Spread of Air Pollutants

Christopher Krause 10th grade
The Classical Academy Colorado Springs
$75
Caution: Urbanization May Be Hot!

Olivia Pecukonis 12th grade
Laura Garcia 12th grade
$100 or equivalent subscription to a professional
Brush High School Brush
The Removal of Ferric Ions Utilizing Mollusk Shells

American Association of University Women
Alexandria Farnsworth 8th grade
$100
Paonia Jr/Sr High School Paonia
Energy with a Spin

American Chemical Society
Colorado Local Section
Aidan Mike 6th grade
North Middle School Colorado Springs
$100
Electro-Flow
Sarah Guthrie 11th grade
Boulder High School Boulder
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro

American Institute of Chemical Engineers
Rocky Mountain Section
Jessika Gill 7th grade
Merino Jr/Sr High School Merino
$75
Lend Me Your Ears!
Kassidy Knutson 7th grade
Wiggins Jr/Sr High School Wiggins
$100
Effects of Acid Rain on Structural Materials
Shannon Tsai 12th grade
Fairview High School Boulder
$75
Constructing a Nanowire: Metallization of Silver onto DNA

American Statistical Association
Colorado/Wyoming Chapter
Zachary Tanner 8th grade
$75
Summit Middle School Boulder
Rock, Paper, Scissors: A Game of Chance?

Shannon Craig 7th grade
West Jefferson Middle School Conifer
Insight in Sight, This Art Is All Right

Sarah Oden 9th grade
Monte Vista High School Monte Vista
The Statistics on Statistics

American Vacuum Society
Rocky Mountain Chapter
Sara Volz 7th grade
Cheyenne Mountain Charter School Colorado Springs
$100
Are Biodiesel Emissions Safer Than Commercial Diesel Emissions?

Jesse Eads 7th grade
Dolores Middle School Dolores
Photon's Effect on Space Time Curvature

Shannon Tsai 12th grade
Fairview High School Boulder
Constructing a Nanowire: Metallization of Silver onto DNA

Jesse Ellison 10th grade
Bayfield High School Bayfield
Plasma Propulsion
American Water Works Association, Rocky Mountain Section & Rocky Mountain Water Environment Association

Casey Campbell 7th grade
$200
La Veta Jr/Sr High School La Veta
The Effects of Coal Bed Methane Produced Water

Zane Willburn 7th grade
$400
Mancos Middle School Mancos
Water Purification off the Grid

Alex Schnaderbeck 12th grade
$200
Sargent Jr/Sr High School Monte Vista
The Effects of Limestone on the Productivity of Aquatic Invertebrates

Ben Armstrong 10th grade
$400
Monte Vista High School Monte Vista
Enemies of the Environment: Estrogen Mimics

Armbruster Associates
Charles Armbruster Memorial Award

Cade Carlson 6th grade
$100
Wiggins Jr/Sr High School Wiggins
The Aerodynamics of Paper Airplanes

ASM International

Ashley Motley 6th grade
certificate, $50
Wiggins Jr/Sr High School Wiggins
How Heat Transfers

Kassidy Knutson 7th grade
certificate, $75
Wiggins Jr/Sr High School Wiggins
Effects of Acid Rain on Structural Materials

Association for Women Geoscientists
Laramide Chapter

Emily Walck 7th grade
$75, achievement medal
Cortez Middle School Cortez
Washing Water to Ta'nagiz

Nicole Mayer 9th grade
$75, achievement medal
Blevins Junior High School Fort Collins
Killed By Campers: The Effect of Dish Soap on Plants

BP
BP Special Award for Energy

Courtlyn Carpenter 7th grade
certificate, computer
East Middle School Grand Junction
Using Evapotranspiration Covers to Reduce Groundwater Pollution

Colorado Association of Meat Processors

Tonya Pavlekno & Laura Gudvangen 9th grade
certificate, $60
Palmer High School Colorado Springs
The Sperbug: How It Spreads

Colorado Association of Science Teachers

Laura Mummery 6th grade
certificate, $50
St Columba Catholic School Durango
Blowin' in the Wind

Layne Barrett 8th grade
certificate, $50
The Classical Academy Colorado Springs
Twist but Don't Shout

Collin Dutro 11th grade
certificate, $50
Genoa-Hugo School Hugo
Do You See What I Hear?

Sean Buck 11th grade
certificate, $50
Cherry Creek High School Greenwood Village
Bringing the Forest Back into Balance: The Mountain Pine Beetle Infestation

Gerald Gromko Award

Christy Farnsworth 10th grade
plaque, $150
Paonia Jr/Sr High School Paonia
Hydrogen: It's All Down Hill

Colorado Biology Teachers' Association

Wyatt Palsen 7th grade
certificate, $75
Otis Jr/Sr High School Otis
Attack of the Killer Worms!!!

Nataara Tamada 11th grade
certificate, $75
Sierra Grande Jr/Sr High School Blanca
Healthy Potatoes: Searching for A-Amylase Inhibitor and RS in Cultivars to Lower the Glycemic Index

Colorado Dental Association

Loren Koszowski & Anna Mellman 7th grade
plaque, $50, invitation to present at the Colorado Dental Association's Annual Meeting and 1 night's lodging at the headquarter hotel/resort during the 122nd CDA's Annual session
Stanley British Primary School Denver
Who Would You Rather Kiss?
Amber Wilson 8th grade plaque, $50, invitation to present at the Colorado Dental Association's Annual Meeting and 1 night's lodging at the headquarter hotel/resort during the 122nd CDA's Annual session
Lamar Middle School Lamar Are Your Teeth In Danger?
Megan Kavalec & Amy Solis 6th grade CSU Bookstore gift cards & gift bag
Canon City Middle School Canon City Tooth Trouble

**Colorado Environmental Health Association**
Alexis Shinn 7th grade certificate, $75
Merino Jr/Sr High School Merino Bacteria Is It What's for Dinner? Bacterial Growth on Grocery Store Produce
Chace Carver 11th grade certificate, $150, invitation to exhibit at the CEHA Annual Educational Conference
Merino Jr/Sr High School Merino The Effects of Bisphenol A from Polycarbonate Plastics on Lumbriculus variegatus

**Colorado Foundation for Agriculture**
K C Zinn 8th grade certificate, $50
Sargent Jr/Sr High School Monte Vista To Rot or Not: Potato Susceptibility to Pink Rot, Phytophthora erythroseptica
Brisha Wakasugi 7th grade certificate, $50
Sierra Grande Jr/Sr High School Blanca Potato Pedology: A Soil Study of Two Different San Luis Valley Growing Horizons
Kaitlyn Lingus 12th grade certificate, $50
Branson School Branson Power of a Biological Control Agent: Compensation Suppression of Convolvulus arvensis Implementing Host-Specific Aceria malherbae - Phase IV
Grant Slinger 11th grade certificate, $50
Stratton High School Stratton Effects of Soil Type on Groundwater Contamination, Phase II

**Colorado Geological Survey & Division of Reclamation Mining and Safety**
Isaac Beverlin 6th grade packet & book
Dolores Middle School Dolores ARCHES: Solid Rock to Windows in Time

**Colorado Mycological Society**
K C Zinn 8th grade certificate, $50
Sargent Jr/Sr High School Monte Vista To Rot or Not: Potato Susceptibility to Pink Rot, Phytophthora erythroseptica

**Colorado Mineral Society**
Dayton Fisher 6th grade $25, mineral sample, book
Yuma Middle School Yuma Vary the Viscosities of Crude Oil
Carl Scheevel 7th grade $40, mineral sample, book
East Middle School Grand Junction Effectiveness of Various Ground Covers on Soil Erosion on a 32.5% Grade
Jeffrey Hibbert 9th grade $25, mineral sample, book
Lone Star School Otis Qualitative Assay of Radionuclide Species in Ash from Coal Combustion
Grant Slinger 11th grade $40, mineral sample, book
Stratton High School Stratton Effects of Soil Type on Groundwater Contamination, Phase II

**Colorado Medical Society**
Corissa Kiepke 6th grade $100, invitation to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
North Middle School Colorado Springs The Effects of Exercise on Memory
Kelsey Martin 10th grade $100, invitation to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
Woodlin School Woodrow BONE BACK: Statins Inhibit Osteosarcoma Cells' Growth and Metastasis

**Colorado River Watch**
Casey Campbell 7th grade $50
La Veta Jr/Sr High School La Veta The Effects of Coal Bed Methane Produced Water
Colorado Scientific Society

Casey Campbell 7th grade
$50
La Veta Jr/Sr High School La Veta
The Effects of Coal Bed Methane Produced Water

Isaac Beverlin 6th grade
$75
Dolores Middle School Dolores
ARCHES: Solid Rock to Windows in Time

Jeffrey Hibbert 9th grade
$75
Lone Star School Otis
Qualitative Assay of Radionuclide Species in Ash from Coal Combustion

Gwyneth Glissmann 11th grade
$100
Peak to Peak Charter School Lafayette
Analyzing Arctic Solar Flux and Ice Extent Loss Projections

Colorado Veterinary Medical Association & CVMA Auxiliary & Auxiliary to the AVMA

Laci Pennington 8th grade
certificate & gold medallion from Auxiliary to the AVMA; $50 from CVMA; $50 from CVMA Auxiliary
Lamar Middle School Lamar
Canine Diabetes Mellitus

Jessie Haugen 11th grade
certificate & gold medallion from Auxiliary to the AVMA; $50 from CVMA; $50 from CVMA Auxiliary
Sargent Jr/Sr High School Monte Vista
What's the Pus? Preventing Staphylococcus Epidermidis Growth in Surgical Procedures

Colorado-Wyoming Society of American Foresters

Heather Hilson 8th grade
$100 savings bond
Summit Middle School Boulder
A Century in the Life of Trees

Sean Buck 11th grade
$100 savings bond
Cherry Creek High School Greenwood Village
Bringing the Forest Back into Balance: The Mountain Pine Beetle Infestation

Covidian Energy-Based Devices

Chace Carver 11th grade
plaque, Dino-Lite Microscope Camera Combo
Merino Jr/Sr High School Merino
The Effects of Bisphenol A from Polycarbonate Plastics on Lumbriculus variegatus

Lisa Grossman 12th grade
plaque, Dino-Lite Microscope Camera Combo
Palmer High School Colorado Springs
Synthetic vs. Natural Vitamin E: Optical Isomerism, Synergy and Antioxidant Testing Problems

Colorado State University
Dept. of Biochemistry & Molecular Biology

Sarah Guthrie 11th grade
certificate, $100
Boulder High School Boulder
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro

Colorado State University
Department of Chemistry

Tess Ringlein 6th grade
certificate, $100
Yuma Middle School Yuma
Pucker Up To Poison

Lisa Grossman 12th grade
certificate, $100
Palmer High School Colorado Springs
Synthetic vs. Natural Vitamin E: Optical Isomerism, Synergy and Antioxidant Testing Problems

Colorado State University
Dept. of Horticulture & Landscape Architecture

K C Zinn 8th grade
$150
Sargent Jr/Sr High School Monte Vista
To Rot or Not: Potato Susceptibility to Pink Rot Phytophthora erythroseptica

Theo Kurtzer 7th grade
$150
Merino Jr/Sr High School Merino
Goodness Gracious Great Balls of Manure

Royce Hoffner 10th grade
$150
Home School Center
Stage Specific Expression of Peroxidase Enzymes in Wound Healing Potato Tubers

Kaitlyn Lingus 12th grade
$150
Branson School Branson
Power of a Biological Control Agent: Compensation Suppression of Convolvulus arvensis Implementing Host-Specific Aceria malherbae – Phase IV

Eastman Kodak Company

K C Zinn 8th grade
digital camera
Sargent Jr/Sr High School Monte Vista
To Rot or Not: Potato Susceptibility to Pink Rot Phytophthora erythroseptica

Christy Farnsworth 10th grade
digital camera
Paonia Jr/Sr High School Paonia
Hydrogen: It's All Down Hill
Aidan Mike 6th grade
microprocessor kit & digital multimeter (approximate value - $150)
North Middle School Colorado Springs

Kayleigh Santala 7th grade
microprocessor kit & digital multimeter (approximate value - $150)
Arriba-Flagler Public School Flagler

Fort Collins Conservation District
Carl Scheevel 7th grade
plaqué, $50
East Middle School Grand Junction
Effectiveness of Various Ground Covers on Soil Erosion on a 32.5% Grade

Tawney Bleak 9th grade
plaqué, $50
Otis Jr/Sr High School Otis
S.O.S. 2 - Save Our Soil, Phase Two

Human Factors & Ergonomics Society
Rocky Mountain Section
Adam Warren 8th grade
$100
The Classical Academy Colorado Springs
Music to Your Ears: A Study of Headphone Types, dB Levels, and the Risk of Potential Hearing Loss

Institute of Electrical and Electronics Engineers
Garrett Glissmann 8th grade
$100
Peak to Peak Charter School Lafayette
Determining Position by Interfacing a GPS to the Web

Jesse Ellison 10th grade
$150
Bayfield High School Bayfield
Plasma Propulsion

Little Shop of Physics
Matthew McCausland Memorial Award
Jesse Ellison 10th grade
$100
Bayfield High School Bayfield
Plasma Propulsion

Lockheed Martin
Hannah Wardell 7th grade
$50 US savings bond
Irving Middle School Colorado Springs
Defeating Passive Infrared Sensors

Jesse Ellison 10th grade
$100 US savings bond, nominal Lockheed Martin logo item
Bayfield High School Bayfield
Plasma Propulsion

MAST Institute
Alexandria Farnsworth 8th grade
$50
Paonia Jr/Sr High School Paonia
Energy with a Spin

Jordan Lestina 9th grade
$50
Dove Creek High School Dove Creek
Biodiesel from Sunflower Oil - An Analysis of Soil Fertility and Sunflower Oil Content

MWH Americas, Inc.
Zane Willburn 7th grade
plaqué, $100
Mancos Middle School Mancos
Water Purification off the Grid

Alexandria Farnsworth 8th grade
plaqué, $200
Paonia Jr/Sr High School Paonia
Energy with a Spin

Bradley Falk 12th grade
plaqué, $100
Cherry Creek High School Greenwood Village
Chemical Comparison of the Relative Efficiency of the 2-Hydroxymethylphenol Synthesis of Aspirin

Dong-Kou Kim 11th grade
plaqué, $200
Fountain Valley School of Colorado Springs
Piezo Generator

National Geophysical Data Center
Heather Hilson 8th grade
certificate, $100 US savings bond
Summit Middle School Boulder
A Century in the Life of Trees

National Renewable Energy Laboratory
Andrew West 12th grade
$100
Conifer High School Conifer
Regenerative Diesel Fuel Production Utilizing Vegetable Oil and Catalytic Hydrocracking

Optical Society of America
Rocky Mountain Section
Lizette van Zyl 8th grade
Framed certificate, 1-year subscription for Discover magazine
Boltz Junior High School Fort Collins
Reading in Colors

Sarah Rumbley 12th grade
Devyn Shafer 12th grade
Framed certificate, 1-year subscription for Discover magazine
Peak to Peak Charter School Lafayette
Polarimetry with Laser-Illuminated Digital Holography
Rio Tinto Minerals, Inc.

Michelle Hoffmann 7th grade
$100
Weld Central Junior High School Keenesburg

Insulation Situation

Iris Belensky 8th grade
$200
Summit Middle School Boulder

New and More Energy Efficient Ways to Cure Polymer Clay

Shelby Messer 10th grade
$100
Genoa-Hugo School Hugo

Color to Dye For

Alana Wilbee 9th grade
$200
Palmer High School Colorado Springs

A Well Spun Yarn

Rocky Mountain Association of Geologists

Isaac Beverlin 6th grade
certificate, cash award
Dolores Middle School Dolores
ARCHES: Solid Rock to Windows in Time

Jessika Gill 7th grade
certificate, cash award
Merino Jr/Sr High School Merino
Lend Me Your Ears!

Paxton Becker 7th grade
certificate, cash award
Merino Jr/Sr High School Merino
Sunny Blow! A Comparative Research between Wind and Solar Energies

Alex Schnaderbeck 12th grade
certificate, cash award
Sargent Jr/Sr High School Monte Vista
The Effects of Limestone on the Productivity of Aquatic Invertebrates

Rocky Mountain Goats Foundation

Rebecca Roskowski 8th grade
$150
East Middle School Grand Junction
Are Crawfish That Fish Eat Contributing to High Mercury Levels in Large Fish in the Colorado River Basin?

Brady Buck 11th grade
$150
Wray Jr/Sr High School Wray
Republican River Research Analyzing Aquatic Health

Rocky Mountain Inventors' Association

Zane Willburn 7th grade
$50
Mancos Middle School Mancos
Water Purification off the Grid

Tim Schneider 12th grade
$100
Durango High School Durango
Will Your Vote Count?

Society for Advancement of Chicanos and Native Americans in Science

Rachel Gonzales 6th grade
$50
Miller Middle School Durango
Remember This!

Travis Zuniga 9th grade
$50
South High School Pueblo
The Wonder Drug (A Chemical Analysis Of Analgesics To Detect Aspirin)

Society for Mining, Metallurgy and Exploration
Colorado Section

Isaac Beverlin 6th grade
certificate, $100 US savings bond
Dolores Middle School Dolores
ARCHES: Solid Rock to Windows in Time

Carl Scheevel 7th grade
$200
East Middle School Grand Junction
Effectiveness of Various Ground Covers on Soil Erosion on a 32.5% Grade

Jeffrey Hibbert 9th grade
$100
Lone Star School Otis
Qualitative Assay of Radionuclide Species in Ash from Coal Combustion

Jared Bannon 10th grade
$200
Branson School Branson
Grassland Regeneration after Juniper Tree Removal. Phase II

Society of Manufacturing Engineers
Northern Colorado, Chapter 354

Zane Willburn 7th grade
certificate, $100 US savings bond
Mancos Middle School Mancos
Water Purification off the Grid

Hannah Wardell 7th grade
certificate, $100 US savings bond
Irving Middle School Colorado Springs
Defeating Passive Infrared Sensors

Adam Goss 12th grade
certificate, $150 US savings bond
Brush High School Brush
Design and Construction of a Flexible Robotic

Cameron Kruse 12th grade
certificate, $150 US savings bond
Home School Colorado Springs
The Dirt on Baseball: Engineering a Path Toward Standardizing the Baseball Mudding Process
Society of Women Engineers
Rocky Mountain Section

Alexandria Farnsworth 8th grade
Paonia Jr/Sr High School Paonia
Energy with a Spin

Emily Walck 7th grade
Cortez Middle School Cortez
Washing Water to Ta’nagiz

Nina Popovic-Basta 11th grade
Fairview High School Boulder
Wireless Powercord

Christy Farnsworth 10th grade
Paonia Jr/Sr High School Paonia
Hydrogen: It’s All Down Hill

Soil & Water Conservation Society
Colorado Chapter

Courtlyn Carpenter 7th grade
East Middle School Grand Junction
Using Evapotranspiration Covers to Reduce Groundwater Pollution

Casey Campbell 7th grade
La Veta Jr/Sr High School La Veta
The Effects of Coal Bed Methane Produced Water

Grant Slinger 11th grade
Stratton High School Stratton
Effects of Soil Type on Groundwater Contamination, Phase II

Tawney Bleak 9th grade
Otis Jr/Sr High School Otis
S.O.S. 2 - Save Our Soil, Phase Two

SPIE - The International Society for Optics and Photonics

Liam Jasperse-Sjolander 8th grade
North Middle School Colorado Springs
A Light Delusion: The Effects of Light Pollution on Algae

Marlena Widman 10th grade
The Classical Academy Colorado Springs
Junkyard Multispectral Imaging

Karthik Kumar-Rao 12th grade
Fairview High School Boulder
Creating A Quantum Optical Source Using Laser Pointers and Parametric Down Conversion

The Inventors' Roundtable

Rahul Shankar 8th grade
Mountain Ridge Middle School Colorado Springs
Co-operating Robots: Behavior-Based Robots Using Subsumption Architecture

Tim Schneider 12th grade
Durango High School Durango
Will Your Vote Count?

Zane Willburn 7th grade
Mancos Middle School Mancos
Water Purification off the Grid

Cameron Kruse 12th grade
Home School Colorado Springs
The Dirt on Baseball: Engineering a Path Toward Standardizing the Baseball Mudding Process

United States Geological Survey

Casey Campbell 7th grade
La Veta Jr/Sr High School La Veta
The Effects of Coal Bed Methane Produced Water

Caleb Kruse 10th grade
Home School Colorado Springs
C The Difference II: The Effect of Ascorbic Acid on Zooxanthellal Density During Coral Bleaching

University of Colorado Health Sciences Center
Medical Scientist Training Program

Samuel Galler 12th grade
Boulder High School Boulder
Hemispheric Lateralization in Auditory Cortex for Words Versus Partial Speech Sounds

Rishi Rawat 12th grade
Boulder High School Boulder
Differential Expression of BCL-2 proteins in U2OS: A Look at What Really Kills Cancer

US Department of Commerce

Adam Goss 12th grade
alternate for the opportunity for summer employment with the Department of Commerce, with the possibility for future continuing employment
Brush High School Brush
Design and Construction of a Flexible Robotic Device

Tim Schneider 12th grade
Durango High School Durango
Will Your Vote Count?
Xcel Energy
Environmental Stewardship Award

Laura Mummery 6th grade
$100
St Columba Catholic School Durango
"Blowin' in the Wind"
Molly Nelson 9th grade
Jason Carwin 9th grade
$150
Fleming High School Fleming
"The Effects of Elevated CO₂ Levels on Plants in Different Environments"

Innovation in Energy Award

Alexandria Farnsworth 8th grade
$100
Paonia Jr/Sr High School Paonia
"Energy with a Spin"
Christy Farnsworth 10th grade
$150
Paonia Jr/Sr High School Paonia
"Hydrogen: It's All Down Hill"

Yale University Science & Engineering Association

Nina Popovic-Basta 11th grade
certificate, pewter medallion
Fairview High School Boulder
"Wireless Powercord"

Zahourek Systems, Inc.

Corissa Kiepke 6th grade
Maniken models, including clay and tool accessories (valued at $174)
North Middle School Colorado Springs
"The Effects of Exercise on Memory"
Chace Carver 11th grade
Maniken models, including clay and tool accessories (valued at $174)
Merino Jr/Sr High School Merino
"The Effects of Bisphenol A from Polycarbonate Plastics on Lumbriculus variegates"

Zonta Club of Boulder County
Amelia Earhart Award

Emily Sandner 7th grade
$100
St. Columba Middle School Durango
"Wingin' It: Density Altitude's Effect on Lift"

Scholarships

Adams State College Foundation
Adams State College Scholarships

Brandy Haller 10th grade
equivalent to one-year resident tuition and fees
Woodlin School Woodrow
"Comparison of Mountain Pine Beetle in Colorado and Surrounding States"
Kenzie Witt 10th grade
equivalent to one-year resident tuition and fees
Arriba-Flagler Public School Flagler
"Reading: Beyond Black & White"
Shelby Messer 10th grade
equivalent to one-year resident tuition and fees
Genoa-Hugo School Hugo
"Color to Dye For"
Bryant Elrick 11th grade
equivalent to one-year resident tuition and fees
Arriba-Flagler Public School Flagler
"Just Passing Through"
Darla Rosenbrock 10th grade
equivalent to one-year resident tuition and fees
Brush High School Brush
"Energy Content in Different Biodiesel"
Cahl Johnson 9th grade
equivalent to one-year resident tuition and fees
Kim School Kim
"Rocketry: Does Size Matter"
Ben Armstrong 10th grade
equivalent to one-year resident tuition and fees
Monte Vista High School Monte Vista
"Enemies of the Environment: Estrogen Mimics"
Bethany Dilda 10th grade
equivalent to one-year resident tuition and fees
Branson School Branson
"The Golden Ratio in Natural Adaptations"
Jessie Haugen 11th grade
equivalent to one-year resident tuition and fees
Sargent Jr/Sr High School Monte Vista
"What's the Pus? Preventing Staphylococcus Epidermidis Growth in Surgical Procedures"
Erika Baker 10th grade
equivalent to one-year resident tuition and fees
Merino Jr/Sr High School Merino
"Eye Can't See Clearly Now! A Comparison Study of Contact Types with E. coli and S. epidermidis"
Antonia Lira 10th grade
equivalent to one-year resident tuition and fees
Lamar High School Lamar
"Pig-In-A-Blanket"
Royce Hoffner 10th grade
Home School Center
*Stage Specific Expression of Peroxidase Enzymes in Wound Healing Potato Tubers*

Tyler Wilson 11th grade
Nuala Del Piccolo 12th grade
Chiara Del Piccolo 10th grade
equivalent to one-year resident tuition and fees
Basalt High School Basalt
*Mudslide Effect on Macroinvertebrate Diversity*

**Colorado School of Mines**
*Colorado School of Mines Scholarships*

Bryant Elrick 11th grade
four year 50% resident tuition scholarship
Arriba-Flagler Public School Flagler
*Just Passing Through*

Dong-Kou Kim 11th grade
four year 50% resident tuition scholarship
Fountain Valley School of Colorado Colorado Springs
*Piezo Generator*

Michael Crane 11th grade
four year 50% resident tuition scholarship
Cherry Creek High School Greenwood Village
*A Disease Model of XDR-TB*

Collin Dutro 11th grade
gene-0a-Hugo School Hugo
*Do You See What I Hear?*

Grant Slinger 11th grade
four year 50% resident tuition scholarship
Stratton High School Stratton
*Effects of Soil Type on Groundwater Contamination, Phase II*

David Wu 11th grade
four year 50% resident tuition scholarship
Cherry Creek High School Greenwood Village
*Charcoal and Methanol Production by the Destructive Distillation of Cellulosic Waste*

**University of Colorado - Boulder**
*College of Engineering & Applied Science Scholarships*

Nicole Reeves & Ethan Merritt 11th grade
$1,500 one year scholarship
Wray Jr/Sr High School Wray
*Paycheck Performance*

Marlena Widman 10th grade
$2,500 one year scholarship
The Classical Academy Colorado Springs
*Junkyard Multispectral Imaging*

Max Krakauer 12th grade
$3,000 one year scholarship
Palmer High School Colorado Springs
*Testing the Effects of Gasoline, E-85 Gasoline Mix, and 2,5-Dimethylfuran on Saccharomyces cerevisiae*

**Intel Foundation**
*Ryan Patterson Scholarship*
Andrew West 12th grade
$2,000 non-renewable scholarship to college of choice
Conifer High School Conifer
*Regenerative Diesel Fuel Production Utilizing Vegetable Oil and Catalytic Hydrocracking*

**Lockheed Martin**
*Teacher of the Year Award*
Doug Steward certificate, $3,000 grant
Monte Vista High School Monte Vista

**Society for Science & the Public**

**American Meteorological Society**
Gwyneth Glissmann 11th grade
certificate
Peak to Peak Charter School Lafayette
*Analyzing Arctic Solar Flux and Ice Extent Loss Projections*

Brady Buck 11th grade
certificate
Wray High School Wray
*Republican River Research Analyzing Aquatic Health*

**American Psychological Association**
*Achievement in Psychological Science Award*
Allie Martin 9th grade
certificate
Woodlin School Woodrow
*The Task at Hand: Is Multitasking Affecting Our Health and Productivity?*

**Herbert Hoover Presidential Library Association**
*Herbert Hoover Young Engineer Award*
Karthik Kumar-Rao 12th grade
certificate, medallion
Fairview High School Boulder
*Creating A Quantum Optical Source Using Laser Pointers and Parametric Down Conversion*

**Intel Corporation**
*Intel Excellence in Computer Science Award*
Chelsea Oden 12th grade
certificate, $200 (to be mailed)
Monte Vista High School Monte Vista
*The Probability of Me*

**National High School & Two-Year College Mathematics Honor Society**
*Mu Alpha Theta Award*
Chelsea Oden 12th grade
certificate
Monte Vista High School Monte Vista
*The Probability of Me*
National Society of Professional Engineers
Innovative Engineering Award

Cameron Kruse 12th grade
Home School Colorado Springs
The Dirt on Baseball: Engineering a Path Toward Standardizing the Baseball Mudding Process

Ricoh Americas Corporation
Ricoh Sustainability Development Award

Joline Lobato 12th grade
certificate
Antonito High School Antonito
Solar Powered Sand Beds and Other Heat Transfer Sources

Scientific American
Scientific American Award for Outstanding Achievement

Gwyneth Glissmann 11th grade
certificate, 1-year subscription to Scientific American
Peak to Peak Charter School Lafayette
Analyzing Arctic Solar Flux and Ice Extent Loss Projections

Sarah Guthrie 11th grade
certificate, 1-year subscription to Scientific American
Boulder High School Boulder
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro

Ben Armstrong 10th grade
certificate, 1-year subscription to Scientific American
Monte Vista High School Monte Vista
Enemies of the Environment : Estrogen Mimics

Danielle Pite 12th grade
Kelly Lane 12th grade
Anna Hermann 12th grade
certificate, 1-year subscription to Scientific American
Boulder High School Boulder
Didymosphenia geminata: The Core Question

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

Sarah Guthrie 11th grade
Certificate
Boulder High School Boulder
The Mechanisms and Actions of Parthenolide on Platelet 5-HT Secretion In Vitro

Society for Science & the Public
SSP Middle School Competition

Nakayla Lestina 8th grade
nomination to enter the SSP national competition
Dove Creek Middle School Dove Creek
Biological Control of Canada Thistle Phase 2: Analyzing the Spread of Three Natural Insect

Garret Cerny 6th grade
nomination to enter the SSP national competition
Eagle County Carter Academy Wolcott
Is It Easier to Always Be Right?

Kelsey Piper 8th grade
nomination to enter the SSP national competition
Summit Middle School Boulder
Going Bananas: Does the Vitamin C Concentration of a Banana Vary with Ripeness?

Sara Cunningham 6th grade
nomination to enter the SSP national competition
Our Lady of Fatima School Lakewood
Crystals

Joline Lobato 12th grade
certificate
Antonito High School Antonito
Solar Powered Sand Beds and Other Heat Transfer Sources

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Our Lady of Fatima School Lakewood
Crystals

Joline Lobato 12th grade
certificate
Antonito High School Antonito
Solar Powered Sand Beds and Other Heat Transfer Sources
Kassidy Knutson 7th grade
nomination to enter the SSP national competition
Wiggins Jr/Sr High School Wiggins
Effects of Acid Rain on Structural Materials

Carl Scheevel 7th grade
nomination to enter the SSP national competition
East Middle School Grand Junction
Effectiveness of Various Ground Covers on Soil Erosion on a 32.5% Grade

Katie Weiss 8th grade
nomination to enter the SSP national competition
The Ricks Center for Gifted & Talented Denver
The Effect of Fermentation on Fruit

Garrett Glissmann 8th grade
nomination to enter the SSP national competition
Peak to Peak Charter School Lafayette
Determining Position by Interfacing a GPS to the Web

Rachel Beverlin 8th grade
nomination to enter the SSP national competition
Dolores Middle School Dolores
GEYSER SPRING: A Further Characterization of Colorado's Only Geyser

Tucker Leavitt 7th grade
nomination to enter the SSP national competition
Miller Middle School Durango
Golden Music: Phi and the Musical Arts

Bruno Mediate 7th grade
nomination to enter the SSP national competition
The Classical Academy Colorado Springs
Chewing Gum for Brain Activity

Stephen O'Connor-Seville 8th grade
nomination to enter the SSP national competition
Dolores Middle School Dolores
Microbes Make Electricity

Layne Barrett 8th grade
nomination to enter the SSP national competition
The Classical Academy Colorado Springs
Twist but Don't Shout

K C Zinn 8th grade
nomination to enter the SSP national competition
Sargent Jr/Sr High School Monte Vista
To Rot or Not: Potato Susceptibility to Pink Rot, Phytophthora erythroseptica

United States Metric Association
Best Use of the International System of Units Award
Danielle Pite, Kelly Lane & Anna Hermann 12th grade
Boulder High School Boulder
Didymosphenia geminata: The Core Question

United States Public Health Service
US Public Health Service Challenge
Meg Rudy & Kylee Firlit 10th grade
certificate
Palmer High School Colorado Springs
Running Against the Temperature