Press Release

The Changing Faces of Science
## 2001 Colorado Science and Engineering Fair
Grand Awards Press Release

### Junior Division
#### Best Individual Projects

<table>
<thead>
<tr>
<th>Place</th>
<th>Project Title</th>
<th>Grade</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Earth or Bust! Making Fuel to Return from Mars</td>
<td>8th</td>
<td>Mackintosh Academy Denver</td>
</tr>
<tr>
<td>2nd</td>
<td>The Big Burn: Immediate Post Fire Effects of the Mesa Verde National Park Fires</td>
<td>7th</td>
<td>Miller Middle School Durango</td>
</tr>
<tr>
<td>3rd</td>
<td>Knotty Math 2</td>
<td>7th</td>
<td>Pagosa Springs Junior High School</td>
</tr>
</tbody>
</table>

### Senior Division
#### Best Individual Projects

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<tr>
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<tbody>
<tr>
<td>1st</td>
<td>The Sign Translator</td>
<td>11th</td>
<td>Central High School Grand Junction</td>
</tr>
<tr>
<td>2nd</td>
<td>A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression</td>
<td>12th</td>
<td>Merino Jr/Sr High School Merino</td>
</tr>
<tr>
<td>3rd</td>
<td>They Came, They Saw, They Devoured</td>
<td>11th</td>
<td>Monte Vista High School Monte Vista</td>
</tr>
</tbody>
</table>

### Junior Division
#### Botany

<table>
<thead>
<tr>
<th>Place</th>
<th>Project Title</th>
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</tr>
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<tbody>
<tr>
<td>1st</td>
<td>Nutrient Differences in Local Farm Soils</td>
<td>7th</td>
<td>Fort Lupton Middle School Fort Lupton</td>
</tr>
<tr>
<td>2nd</td>
<td>Transformation Efficiency of E. coli Using Aged Cultures</td>
<td>8th</td>
<td>Mountain Ridge Middle School Colorado Springs</td>
</tr>
<tr>
<td>3rd</td>
<td>Surviving with Salt</td>
<td>7th</td>
<td>West Middle School Grand Junction</td>
</tr>
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#### Botany

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</thead>
<tbody>
<tr>
<td>1st</td>
<td>Potential Inoculum Reservoir for PVY in the San Luis Valley, Colorado</td>
<td>12th</td>
<td>Monte Vista High School Monte Vista</td>
</tr>
<tr>
<td>2nd</td>
<td>Microbial Fuel Cells 2</td>
<td>12th</td>
<td>Walsh Jr/Sr High School Walsh</td>
</tr>
<tr>
<td>3rd</td>
<td>Inducing Changes in Osmotic Pressure to Clonally Cryopreserved Propagated Buffalo Grass</td>
<td>11th</td>
<td>Woodlin School Woodrow</td>
</tr>
</tbody>
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### Honorable Mention

<table>
<thead>
<tr>
<th>8th grade</th>
<th>School</th>
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</thead>
<tbody>
<tr>
<td>Ciara Hall</td>
<td>St. Mary’s of Littleton School Littleton</td>
</tr>
<tr>
<td>Brad Hertneky</td>
<td>Burlington Middle School Burlington</td>
</tr>
<tr>
<td>Kathleen Majewski</td>
<td>St. Mary’s of Littleton School Littleton</td>
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<tr>
<td>Reid Mattive</td>
<td>Sargent Elementary School Monte Vista</td>
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<tr>
<td>John Wilkinson</td>
<td>Haxtun Junior High School Haxtun</td>
</tr>
<tr>
<td>Scott Lancaster</td>
<td>Walsh Jr/Sr High School Walsh</td>
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<tr>
<td>Levi Klausner</td>
<td>Woodlin School Woodrow</td>
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<tr>
<td>Levi Klausner</td>
<td>Woodlin School Woodrow</td>
</tr>
</tbody>
</table>
Honorable Mention
Nicolas Burrows 9th grade
Go South Young Radish
Palmer High School Colorado Springs

Honorable Mention
April Mertens 11th grade
An In Vitro Approach to Study the Effects of Genetic Engineering on Antibiotic Resistance
Merino Jr/Sr High School Merino

Junior Division
Earth & Space Sciences
1st Place
Meredith MacGregor 6th grade
Measuring the Sun’s Rotation at Solar Maximum
Burbank Middle School Boulder

2nd Place
Thatcher Heumann 8th grade
The Heat Is On!
Summit Middle School Boulder

3rd Place
Lauren Hakes 6th grade
Sunspot Observation
Miller Middle School Durango

Honorable Mention
Adam Blackford 8th grade
What Methods Control Erosion Best?
Swink School Swink

Senior Division
Earth & Space Sciences
1st Place
Evan Burgess 12th grade
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion
Fairview High School Boulder

2nd Place
Adam Ginsburg 10th grade
Stability of a Small Planet’s Orbit in the Habitable Zone of a Three Body System
Cherry Creek High School Greenwood Village

3rd Place
Brandon Gosch 9th grade
The Erosion Effect: Soil Movement in the Garden of the Gods
Palmer High School Colorado Springs

Junior Division
Engineering
1st Place
Kalen Meine 8th grade
Earth or Bust! Making Fuel to Return from Mars
Mackintosh Academy Denver

2nd Place
Kevin Weber 8th grade
Communicating at the Speed of Light: Free-Air Laser Communications
Challenger Middle School Colorado Springs

3rd Place
Robert Glissmann 7th grade
To Track . . . Or . . . Not to Track: Examining the Benefits of Solar Tracking
Summit Middle School Boulder

Team Award Nomination
Mark Loiseau 8th grade
The Use of Simple Fuzzy Logic in Robotics
Rick’s Center for Gifted Children Denver

Honorable Mention
Megan Vogel 8th grade
Slinky the Electric Toy
Holy Family Catholic School Grand Junction

Senior Division
Engineering
1st Place
Ryan Patterson 11th grade
The Sign Translator
Central High School Grand Junction

2nd Place
Dak Steiert 10th grade
A Thesis on Liquid Bi-Propellant Rocket Propulsion
Battle Mountain High School Edwards

3rd Place
Natalie Barnes 12th grade
Are You Done with the Paper Yet, Dear?
Woodlin School Woodrow

Honorable Mention
Robert Ussery 9th grade
Remotely Piloted Crop Dusting
Home Schooled Fort Collins

Honorable Mention
Craig Bryan 10th grade
Vulcan Block: A Building System for the Future
Sargent Jr/Sr High School Monte Vista

Honorable Mention
Michael Yurkoski 10th grade
Autonomous Robot Pet
Broomfield High School Broomfield

Junior Division
Environmental Sciences
1st Place
Clark Patton 8th grade
Feces Happens
Summit Middle School Boulder
2nd Place
Corey Swanson 8th grade
The Effect of Radiation on Seed Germination, Plant Growth and Their Chromosomes
Fort Lupton Middle School Fort Lupton

3rd Place
Tyler Benton 8th grade
The Ecological Study of Microbial CO₂ Respiration of Grazed and Ungrazed Rangeland Grasses
Hi-Plains Jr/Sr High School Seibert

Honorable Mention
Katherine Hermann 8th grade
The Water Quality of Boulder Creek Southern Hills Middle School Boulder

Honorable Mention
Dusty Werner 7th grade
Airvill Population St. Anthony’s Catholic School Sterling

Honorable Mention
Chris Michel 7th grade
A River Runs Through It: A Study of the South Platte River
Merino Jr/Sr High School Merino

Junior Division
Health & Behavioral Sciences
1st Place
Graham Anderson 7th grade
You’re an All-Star! An Experiment about Athletes and Visual Reflexes
North Middle School Colorado Springs

2nd Place
Alex West 7th grade
Development of a Manipulative Model for Instruction in DNA Sequencing for Use in Public Schools
West Jefferson Middle School Conifer

3rd Place
Ava Hoffman 8th grade
My How Time Flies
Sargent Jr/Sr High School Monte Vista

Honorable Mention
Kori Tagtmeyer 8th grade
Determining the Presence of Clostridium perfringens
Hi-Plains Jr/Sr High School Seibert

Honorable Mention
Nathan Spaulding 7th grade
Study of Various Bacteria’s Resistance to Bacteriophage
Platt Middle School Louiseville

Honorable Mention
Eris Moore 8th grade
The Hypocrisy of Antibacterial Hand Gels
Woodlin School Woodrow

Honorable Mention
Alexis Brettschneider 7th grade
Neon’s Fluorescent Search
Highland Middle School Carr

Honorable Mention
Brian Walker 7th grade
Gross! Mung?! What IS the Green Stuff on Nosepads?
Fort Morgan Middle School Fort Morgan

Honorable Mention
Darrick Ohr 8th grade
Get a Grip: Culturing Bacteria from Handles
Woodlin School Woodrow

Senior Division
Environmental Sciences
1st Place
Milena Pastore 11th grade
The Came, They Saw, They Devoured
Monte Vista High School Monte Vista

2nd Place
Lori Timm 12th grade
Alar Scare: Real or Hysteria?
Monte Vista High School Monte Vista

3rd Place
Mary Grace Beard 11th grade
Dust Suppression for Agricultural Application
Walsh Jr/Sr High School Walsh

Honorable Mention
Christine Knoblauch 11th grade
Whose Fault Is It Anyway? The Alamosa River
Monte Vista High School Monte Vista

Honorable Mention
Ryan Schnell 12th grade
A Possible Control of Pine Beetle Infestations by Overcoming Larval Supercooling
Fairview High School Boulder

Honorable Mention
Craig Wright 9th grade
Gone with the Wind: Predicting Wind Erosion
Woodlin School Woodrow

Senior Division
Health & Behavioral Sciences
1st Place
Keri Propst 12th grade
A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression
Merino Jr/Sr High School Merino
### 2nd Place
Sara McFarland, 10th grade  
*Triclosan: Bacterial Resistance Ahead?*  
Hochne High School, Hochne

### 3rd Place
Kelly Haller, 10th grade  
*Nutritional Intervention as a Potential Treatment for Dogs with Degenerative Joint Disease*  
Woodlin School, Woodrow

### Honorable Mention
Crystal Meyrett, 11th grade  
*Can You Eliminate Scrapie Genetically?*  
Kiowa High School, Kiowa

### Honorable Mention
Amy Liu, 11th grade  
*Adverse Effects of Iron Plus Vitamin C on Human Cells*  
Cherry Creek High School, Greenwood Village

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### Junior Division

#### Mathematics & Computer Sciences

| 1st Place | Matt Nobles, 7th grade  
*Knotty Math 2*  
Pagosa Springs Junior High School, Pagosa Springs |
|-----------|-------------------------|
| 2nd Place | Tyler Nicely, 8th grade  
*The Effects of MP3 Compression on Music Quality*  
Home Schooled, Colorado Springs |
| 3rd Place | Adam Sidman, 7th grade  
*Patterns in DNA: The Vocabulary of Life*  
North Middle School, Colorado Springs |

#### Honorable Mention

| Briennan Groves, 7th grade  
*A Math Lesson in Democracy*  
Wiggins Jr/Sr High School, Wiggins |

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### Senior Division

#### Mathematics & Computer Sciences

| 1st Place | Brian Camley, 10th grade  
*The New Polynomial Diet (Lose Pixels, Look Better): A Legendre Polynomial Based Alternative to JPEG*  
Palmer High School, Colorado Springs |
|-----------|-------------------------|
| 2nd Place | Kevin Christopher, 12th grade  
*Isomap and Neural Networks: A Comparison of Dimensionality Reduction Frameworks*  
Cherry Creek High School, Greenwood Village |
| 3rd Place | Eric Doner, 11th grade  
*Boris of Course*  
Walsh Jr/Sr High School, Walsh |

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### Honorable Mention

| Alyssa Hill, 8th grade  
*Rusty Chevrolet: The Effects of Ice Melting Compounds on Car Parts*  
Fort Morgan Middle School, Fort Morgan |

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### 1st Place
Merika Meertens, 7th grade  
*Sticky Static*  
Centennial Middle School, Boulder

### 2nd Place
Meredith Myre, 6th grade  
*The Effect of Heat and Humidity on Membranophones*  
Miller Middle School, Durango

### 3rd Place
Rolena Richardson, 8th grade  
*What’s Up with Fermentation?*  
Berry Creek Middle School, Avon

### Honorable Mention

| Catherine Gold, 7th grade  
*Brick-A-Brac*  
Rick’s Center for Gifted Children, Denver |

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### Physical Sciences

#### Junior Division

| 1st Place | Jessica Caver, 10th grade  
*Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds*  
Woodlin School, Woodrow |
|-----------|-------------------------|
| 2nd Place | Lucas Ingmire, 12th grade  
*Newton’s Law or Murphy’s? The Physics of Falling Bread*  
Brush High School, Brush |
| 3rd Place | Jessica Sidman, 9th grade  
*Magnetoplasmadynamics: The Future in Space Propulsion?*  
Palmer High School, Colorado Springs |

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#### Senior Division

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*Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds*  
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<td><strong>Zoology</strong></td>
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<tr>
<td><strong>1st Place</strong></td>
<td>Scott Japhet 7th grade</td>
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<tr>
<td><em>Enlightened Nerka: Response of Kokanee Salmon Fry to Light and Sound</em></td>
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<tr>
<td>Miller Middle School Durango</td>
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<tr>
<td><strong>2nd Place</strong></td>
<td>Stacey Bartlett 7th grade</td>
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<tr>
<td><em>Gene Prints: Do Genetics Influence Fingerprints?</em></td>
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<tr>
<td>Merino Jr/Sr High School Merino</td>
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</tr>
<tr>
<td><strong>3rd Place</strong></td>
<td>Nathan Schmidt 7th grade</td>
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<tr>
<td><em>Will Poisonous Plastics Take You To the Undertaker?</em></td>
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<tr>
<td>Merino Jr/Sr High School Merino</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Mark Baker 6th grade</td>
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<tr>
<td><em>Fishy Response</em></td>
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<tr>
<td>Buchanan Middle School Wray</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Travis Campbell 6th grade</td>
</tr>
<tr>
<td><em>A Study of Long Term Memory in a Rat</em></td>
<td></td>
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<td>Miller Middle School Durango</td>
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<tr>
<td><strong>1st Place</strong></td>
<td>Betsy Taylor 12th grade</td>
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<td><em>A Study of Environmental Hormones: Testing PVC Extract on Wild Fruit Flies</em></td>
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<td>Palmer High School Colorado Springs</td>
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<tr>
<td><strong>2nd Place</strong></td>
<td>Frank Bauer 11th grade</td>
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<tr>
<td><em>A Comparative Study of M. Cerebralis Infection in Three Different Species of Salmonid Fishes</em></td>
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<tr>
<td>Brush High School Brush</td>
<td></td>
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<tr>
<td><strong>3rd Place</strong></td>
<td>Melissa Pinkerton 12th grade</td>
</tr>
<tr>
<td><em>Cell Damage: The Effects of Cellular Phone Emissions on E. coli and Drosophila melanogaster</em></td>
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<tr>
<td>Monte Vista High School Monte Vista</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Amber Henry 9th grade</td>
</tr>
<tr>
<td><em>Forensic Entomology: A Simulation of Sarcophagex bullata Development in Varying Temperatures</em></td>
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<tr>
<td><strong>Zoology</strong></td>
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<tr>
<td><strong>1st Place</strong></td>
<td>Kelsea Ferrato &amp; Erika Langhart 8th grade</td>
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<td><em>The Big Burn: Immediate Post-Fire Effects of the Verde National Park Fires</em></td>
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<td>Miller Middle School Durango</td>
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<tr>
<td><strong>2nd Place</strong></td>
<td>Molly Kraus &amp; Hannah Kraus 8th grade</td>
</tr>
<tr>
<td><em>Biosphere: Controlled Ecological Life Support System</em></td>
<td></td>
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<tr>
<td>Pagosa Springs Junior High School Pagosa Springs</td>
<td></td>
</tr>
<tr>
<td><strong>3rd Place</strong></td>
<td>John Young &amp; Cody Iszler 8th grade</td>
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<tr>
<td><em>Pollution from Fireplace Fuels</em></td>
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<tr>
<td>Ridgeway School Ridgeway</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Joel Martin &amp; Douglas Jolly 8th grade</td>
</tr>
<tr>
<td><em>Illuminating the Truth About Melatonin</em></td>
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<td>Palmer High School Colorado Springs</td>
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<tr>
<td><strong>1st Place</strong></td>
<td>Curtis Larimer &amp; Dave Wacker 9th grade</td>
</tr>
<tr>
<td><em>Mathematics Is Not Yet Ready for Such Problems</em></td>
<td></td>
</tr>
<tr>
<td>Palmer High School Colorado Springs</td>
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</tr>
<tr>
<td><strong>2nd Place</strong></td>
<td>Kristen Rasmussen &amp; Aaron Burgess 10th grade</td>
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<tr>
<td><em>Microbarometric Turbulence: Measuring Invisible Atmospheric Waves with a Homemade Microbarograph</em></td>
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<tr>
<td>Fairview High School Boulder</td>
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<tr>
<td><strong>3rd Place</strong></td>
<td>Jessica McAlister &amp; Jayme Johnson 11th grade</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
<td>Kendal Bauman &amp; Ashley Chapin 11th grade</td>
</tr>
<tr>
<td><em>The Effects of Polymer Crystals on Nitrates and Plant Growth</em></td>
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<tr>
<td>Pawnee High School Grover</td>
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</table>
Honorable Mention
Luke Klausner & Bryan Herrera  12th grade  
*Breaking the Constraints of the Gregorian Time System*  
Woodlin School  Woodrow

Honorable Mention
Samuel Haung  10th grade  
Andy Lin  11th grade  
*Investigation of Antibacterial Detergent*  
Cherry Creek High School  Greenwood Village

Honorable Mention
Valerie Brice, Java Tunson & Anna Nussbaum  11th grade  
*The Biological, Chemical and Physical Interaction within a Wetland’s Ecosystem*  
Palmer High School  Colorado Springs
2001 Colorado Science and Engineering Fair
Special Awards Press Release

**Colorado Science and Engineering Fair**

**Ralph Desch Memorial Technical Writing Award**

Betsy Taylor 12th grade
Palmer High School Colorado Springs
*A Study of Environmental Hormones: Testing PVC Extract on Wild Fruit Flies*

**Student Choice Award**

Adam Sidman 7th grade
North Middle School Colorado Springs
*Patterns in DNA: The Vocabulary of Life*

Evan Burgess 12th grade
Fairview High School Boulder
*Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion*

Bennett Merriman 11th grade
Wasson High School Colorado Springs
*Ionic Propulsion*

**Poster Art Contest**

Molly Kraus & Hannah Kraus certificate, $100
Pagosa Springs Junior High School Pagosa Springs

**Military**

Jesse Sindler & Sarah Sindler 6th grade
Frontier Academy Greeley
*Walking on Water*

Weston Brownlee, Beau McBrien & Michael Unruh 8th grade
Certificate, $50 savings bond
*A Comparative Study of M. cerebralis Infection in Three Different Species of Salmonid Fishes*

Kayla Cochran 9th grade
Sargent Jr/Sr High School Monte Vista
*Hippo Therapy: Hidden Horsepower*

Keri Propst 12th grade
Merino Jr/Sr High School Merino
*A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression*

**United States Army**

Kristen Claunch 6th grade
Fort Morgan Middle School Fort Morgan
*Is Your Toothpaste “Egg”cellent?*

**American Chemical Society**

Alyssa Hill 8th grade
Battle Mountain High School Edwards
*A Thesis on Liquid Bi-Propellant Rocket Propulsion*
American Institute of Chemical Engineers
Rocky Mountain Section

Michael Deen 9th grade
$75
Christian Fellowship School Denver
Making an Oil Spill Containment Device Containing Polyabsorbant Crystals

Kalen Meine 8th grade
$100
Mackintosh Academy Denver
Earth or Bust! Making Fuel to Return from Mars

Christian Fellowship School Denver
Making an Oil Spill Containment Device Containing Polyabsorbant Crystals

Kalen Meine 8th grade
$100
Mackintosh Academy Denver
Earth or Bust! Making Fuel to Return from Mars

American Meteorological Society
Denver/Boulder Chapter

Thatcher Heumann 8th grade
certificate, $50 gift certificate to Barnes & Noble
Summit Middle School Boulder
The Heat Is On!

Molly McClurg 8th grade
certificate, $50 gift certificate to Barnes & Noble
Boltz Junior High School Fort Collins
The Heat Is On

American Vacuum Society
Rocky Mountain Chapter

Kalen Meine 8th grade
$50, $50 for winner's school
Mackintosh Academy Denver
Earth or Bust! Making Fuel to Return from Mars

Kevin Weber 8th grade
$100, $100 for winner's school
Challenger Middle School Colorado Springs
Communicating at the Speed of Light: Free-Air Laser Communications

Kristen Rasmussen & Aaron Burgess 10th grade
$50, $50 for winner's school
Fairview High School Boulder
Microbarometric Turbulence: Measuring Invisible Atmospheric Waves with a Homemade Microbarograph

American Water Works Association
Rocky Mountain Section

Hayley Finley 9th grade
$50, plaque
Palmer High School Colorado Springs
Simply Irresistible: Bacterial Immunities to Disinfectants
Christine Knoblauch 11th grade
$75, plaque
Monte Vista High School Monte Vista Whose Fault Is It Anyway? The Alamosa River

American Welding Society
Colorado Section

Kalen Meine 8th grade
trophy, $25
Mackintosh Academy Denver
Earth or Bust! Making Fuel to Return from Mars

Jessica Caver 10th grade
trophy, $25
Woodlin School Woodrow
Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds

Atlantic Corporation

Brad Klingenberg 9th grade
certificate, $100
Greeley Central High School Greeley
Constrictor: The Development and Implementation of an Alternative Compression Algorithm

ASM International
Rocky Mountain Chapter

Alyssa Hill 8th grade
$50
Fort Morgan Middle School Fort Morgan
Rusty Chevrolet: The Effects of Ice Melting Compounds on Car Parts

Jessica Caver 10th grade
$75
Woodlin School Woodrow
Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds

Association for Women Geoscientists
Denver Chapter

Meredith MacGregor 6th grade
$50, rock sample
Burbank Middle School Boulder
Measuring the Sun’s Rotation at Solar Maximum

Christine Knoblauch 11th grade
$50, rock sample
Monte Vista High School Monte Vista Whose Fault Is It Anyway? The Alamosa River

Colorado Association of Science Teachers

Kevin Weber 8th grade
$50, certificate
Challenger Middle School Colorado Springs
Communicating at the Speed of Light: Free-Air Laser Communications
Kelsea Ferrato & Erika Langhart 8th grade
$50, certificate
Miller Middle School Durango
The Big Burn: Immediate Post-Fire Effects of the Mesa Verde National Park

Jessica Sidman 9th grade
$50, certificate
Palmer High School Colorado Springs
Magnetoplasmadynamics: The Future in Space Propulsion?

Luke Klausner & Bryan Herrera 12th grade
$50, certificate
Woodlin School Woodrow
Breaking the Constraints of the Gregorian Time System

Colorado Biology Teachers Association
Kelsea Ferrato & Erika Langhart 8th grade
$25, plaque
Miller Middle School Durango
The Big Burn: Immediate Post-Fire Effects of the Mesa Verde National Park

Michelle Itano 11th grade
$25, plaque
Fairview High School Boulder
Locating Genes on a Drosophila Chromosome

Colorado Dental Association
Kristin Cluanch 6th grade
watch
Mountain Ridge Middle School Colorado Springs
Is Your Toothpaste “Egg”cellent?

Drew Doner 7th grade
$25, plaque
Walsh Jr/Sr High School Walsh
How “Germie” Is Your Toothbrush?

Lauren Neher 10th grade
$50, plaque
Home Schooled Brush
The Effectiveness of Oxacillin vs. Bacitracin on Streptococcal Bacteria

Colorado Foundation for Agriculture
Irina Hardesty 8th grade
certificate, cash award
West Jefferson Middle School Conifer
Non-Native Noxious Nuisances: A Study of Noxious Weed Frequency

April Mertens 11th grade
certificate, cash award
Merino Jr/Sr High School Merino
An In Vitro Approach to Study the Effects of Genetic Engineering on Antibiotic Resistance

Colorado Geological Survey
Thatcher Heumann 8th grade
$75
Summit Middle School Boulder
The Heat Is On!

Evan Burgess 12th grade
$75
Fairview High School Boulder
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion

Colorado Medical Society Education Foundation
Bradley Proulx 8th grade
certificate, $100 savings bond, invitation to exhibit at the Annual meeting and attendance at Presidential Inaugural Dinner
St. Mary’s of Littleton School Littleton
Up In Smoke

Keri Propst 12th grade
certificate, $100 savings bond, invitation to exhibit at the Annual meeting and attendance at Presidential Inaugural Dinner
Merino Jr/Sr High School Merino
A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression

Colorado Mineral Society
David Sumpter 8th grade
$25, 2 mineral specimens, certificate, book
Swink School Swink
A Study of Earthquake Potential in Southern Colorado

Sarah Broce 6th grade
$40, 2 mineral specimens, certificate, book
Kim School Kim
Fascinating Footprint Facts

Evan Burgess 12th grade
$25, 2 mineral specimens, certificate, book
Fairview High School Boulder
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion

Milena Pastore 11th grade
$40, 2 mineral specimens, certificate, book
Monte Vista High School Monte Vista
They Came, They Saw, They Devoured

Colorado Mycological Society
Milena Pastore 11th grade
$25, book on fungi, certificate
Monte Vista High School Monte Vista
They Came, They Saw, They Devoured

Colorado Scientific Society
Tyler Keck 7th grade
$50
Monte Vista Middle School Monte Vista
Runaway Water: Does Polyacrylamide Help Reduce Soil Erosion?
David Sumpter 8th grade
$75
Swink School Swink
A Study of Earthquake Potential in Southern Colorado
Evan Burgess 12th grade
$75
Fairview High School Boulder
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion
Christine Knoblauch 11th grade
$100
Monte Vista High School Monte Vista
Whose Fault Is It Anyway? The Alamosa River

Colorado Sustainability Project
Charlie Keenan 8th grade
$75, certificate, information on sustainability
Holy Family Catholic School Grand Junction
Save the Water!
Casey Steele 8th grade
$125, certificate, information on sustainability
Hayden Middle School Hayden
Slick Solutions
Craig Bryan 10th grade
$75, certificate, information on sustainability
Sargent Jr/Sr High School Monte Vista
Vulcan Block: A Building System for the Future
Milena Pastore 11th grade
$125, certificate, information on sustainability
Monte Vista High School Monte Vista
They Came, They Saw, They Devoured

Colorado Veterinary Medical Association
Kori Tagtmeyer 8th grade
certificate, gold medallion, $50
Hi-Plains Jr/Sr High School Seibert
Determining the Presence of Clostridium perfringens
Rachel Bradshaw 9th grade
certificate, gold medallion, $50
Palmer High School Colorado Springs
BINGO: Pet-Facilitated Therapy and the Elderly

Colorado State University
Dept. of Biochemistry & Molecular Biology
Keri Propst 12th grade
certificate, $100
Merino Jr/Sr High School Merino
A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression

Colorado State University
Department of Chemistry
Lindsay Kallevik 8th grade
certificate, $100
Evangelical Christian Academy Colorado Springs
De-Ice My Sidewalk!

Jessica Caver 10th grade
certificate, $100
Woodrow School Woodrow
Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds

Colorado State University
Dept. of Horticulture & Landscape Architecture
John Wilkinson 7th grade
$100
Mountain Ridge Middle School Colorado Springs
Full Spectrum Beans
Nathan Davidson 12th grade
$100
Monte Vista High School Monte Vista
Potential Inoculum Reservoir for PVY in the San Luis Valley, Colorado

Fort Collins Soil Conservation District
Tyler Benton 8th grade
$50, plaque
Hi-Plains Jr/Sr High School Seibert
The Ecological Study of Microbial CO\textsubscript{2} Respiration of Grazed and Ungrazed Rangeland Grasses
Mary Grace Beard 11th grade
$50, plaque
Walsh Jr/Sr High School Walsh
Dust Suppression for Agricultural Application

Kodak Colorado Division
Corey Swanson 8th grade
35 mm camera
Fort Lupton Middle School Fort Lupton
The Effect of Radiation on Seed Germination, Plant Growth and Their Chromosomes
Lauren Neher 10th grade
35mm camera
Home Schooled Brush
The Effectiveness of Oxacillin vs. Bacitracin on Streptococcal Bacteria

Lockheed Martin Astronautics
Dak Steiert 10th grade
Titan IV B model
Battle Mountain High School Edwards
A Thesis on Liquid Bi-Propellant Rocket Propulsion

National Geophysical Data Center
Thatcher Heumann 8th grade
certificate, plaque, $100 savings bond
Summit Middle School Boulder
The Heat Is On!

National Renewable Energy Laboratory
Robert Glissmann 7th grade
$100
Summit Middle School Boulder
To Track . . . Or . . . Not to Track: Examining the Benefits of Solar Tracking
Optical Society of America
Rocky Mountain Section

John Wilkinson 7th grade
subscription to Discover magazine, certificate, Optical Society
Discovery kit
Mountain Ridge Middle School Colorado Springs
Full Spectrum Beans

Meredith MacGregor 6th grade
subscription to Discover magazine, certificate, Optical Society
Discovery kit
Burbank Middle School Boulder
Measuring the Sun’s Rotation at Solar Maximum

Kevin Weber 8th grade
subscription to Discover magazine, certificate, Optical Society
Discovery kit
Challenger Middle School Colorado Springs
Communicating at the Speed of Light: Free-Air Laser Communications

Rocky Mountain Goats Foundation
Gregory Scott 7th grade
$100
Evergreen Mountain School Evergreen
Changes in Plant Life of Different Life Zones

Ryan Schnell 12th grade
$100
Fairview High School Boulder
A Possible Control of Pine Beetle Infestations by Overcoming Larval Supercooling

Rocky Mountain Inventors & Entrepreneurs Congress
Kalen Meine 8th grade
$50
Mackintosh Academy Denver
Earth or Bust! Making Fuel to Return from Mars

Megan Vogel 8th grade
$50
Holy Family Catholic School Grand Junction
Slinky the Electrical Toy

Ryan Patterson 11th grade
$50
Central High School Grand Junction
The Sign Translator

Keri Propst 12th grade
$50
Merino Jr/Sr High School Merino
A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression

Rocky Mountain Water Environment Association
Katherine Hermann 8th grade
savings bond (mailed later)
Southern Hills Middle School Boulder
The Water Quality of Boulder Creek

Clark Patton 8th grade
savings bond (mailed later)
Summit Middle School Boulder
Feces Happens

Christine Knoblauch 11th grade
savings bond (mailed later)
Monte Vista High School Monte Vista
Whose Fault Is It Anyway? The Alamosa River

Valerie Brice, Java Tunson & Anna Nussbaum 11th grade
savings bond (mailed later)
Palmer High School Colorado Springs
The Biological, Chemical and Physical Interactions within a Wetland’s Ecosystem

Society of Women Engineers
Rocky Mountain Section
Tiffani Burke 6th grade
certificate, $40
Miller Middle School Durango
EddieWeb.net: “Education on the Web”

Megan Vogel 8th grade
certificate, $60
Holy Family Catholic School Grand Junction
Slinky the Electrical Toy

Kinnie Waid 9th grade
certificate, $40
Palmer High School Colorado Springs
The Inconceivable Power Source: Are Fuel Cells the Answer to Our Energy Needs?

Natalie Barnes 12th grade
certificate, $60
Woodlin School Woodrow
Are You Done with the Paper Yet, Dear?

Soil and Water Conservation Society Colorado Chapter
Bear Shash 7th grade
$25, voucher from Hach Company, certificate, ribbon
Gardner School Gardner
What’s Lurking in Your Water?

Tyler Benton 8th grade
$50, voucher from Hach Company, certificate, ribbon
Hi-Plains Jr/Sr High School Seibert
The Ecological Study of Microbial CO2 Respiration of Grazed and Ungrazed Rangeland Grasses

Alicia McDaniel & Cassie Kembel 11th grade
$25, voucher from Hach Company, certificate, ribbon
Brush High School Brush
Alkaloids in Morgan County, Colorado Plants

Ann Tietmeyer 12th grade
$50, voucher from Hach Company, certificate, ribbon
Pawnee High School Grover
The Effects of Polyacrylamide on Soil Erosion
University of Colorado Denver
Health Sciences Center Medical Scientist Training Program

Keri Propst 12th grade
$100
Merino Jr/Sr High School Merino

A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression

United States Department of Commerce

Evan Burgess 12th grade plaque
Fairview High School Boulder
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion

Melissa Pinkerton 12th grade plaque
Monte Vista High School Monte Vista
Cell Damage: The Effects of Cellular Phone Emissions on Escherchia coli and Drosophila melanogaster

United States Geological Survey

Brandon Gosch 9th grade plaque
Palmer High School Colorado Springs
The Erosion Effect: Soil Movement in the Garden of the Gods

Yale University Science & Engineering Association

Ryan Patterson 11th grade certificate, pewter medallion (mailed later)
Central High School Grand Junction
The Sign Translator

Zonta Club of Boulder County
Amelia Earhart Award

Meredith MacGregor 6th grade $100
Burbank Middle School Boulder
Measuring the Sun’s Rotation at Solar Maximum

Scholarships

Adams State College Foundation
Adams State College Scholarships

Scott Lancaster 12th grade one-year full resident tuition & fees scholarship
Walsh Jr/Sr High School Walsh
Microbial Fuel Cells 2

Brandon Gosch one-year full resident tuition & fees scholarship
Palmer High School Colorado Springs
The Erosion Effect: Soil Movement in the Garden of the Gods

Christopher Anderson 11th grade one-year full resident tuition & fees scholarship
Merino Jr/Sr High School Merino
Direct Methanol Fuel Cells for Use in Impressed Current Systems

Mary Grace Beard 11th grade one-year full resident tuition & fees scholarship
Walsh Jr/Sr High School Walsh
Dust Suppression for Agricultural Application

Amy Liu 11th grade one-year full resident tuition & fees scholarship
Cherry Creek High School Greenwood Village
Adverse Effects of Iron Plus Vitamin C on Human Cells

Eric Doner 11th grade one-year full resident tuition & fees scholarship
Walsh Jr/Sr High School Walsh
Boris of Course

Pam Cantonwine 12th grade one-year full resident tuition & fees scholarship
Salida High School Salida
How Temperature Affects the Growth of Crystals in the Compound Mannitol

Holly McGuire 10th grade one-year full resident tuition & fees scholarship
Woodlin School Woodrow
Tracing the Evolution of the PV-92 Alu Element

Colorado School of Mines
Colorado School of Mines Scholarships

Bennett Merriman 11th grade $2,000, 4-year scholarship
Wasson High School Colorado Springs
Ionic Propulsion

Ryan Patterson 11th grade four-year full resident tuition
Central High School Grand Junction

Colorado State University
Colorado State University Scholarship

Nathan Davidson 12th grade renewable $1,000 scholarship
Monte Vista High School Monte Vista
Potential Inoculum Reservoir for PVY in the San Luis Valley, Colorado

Evan Burgess 10th grade renewable $1,000 scholarship
Fairview High School Boulder
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion

Scholarships

Adams State College Foundation
Adams State College Scholarships

Scott Lancaster 12th grade one-year full resident tuition & fees scholarship
Walsh Jr/Sr High School Walsh
Microbial Fuel Cells 2
Brian Camley 11th grade
renewable $1,000 scholarship
Palmer High School Colorado Springs
*The New Polynomial Diet (Lose Pixels, Look Better): A Legendre Polynomial Based Alternative to JPEG*

Jessica Caver 10th grade
renewable $1,000 scholarship
Woodlin School Woodrow
*Influence on an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds*

Betsy Taylor 12th grade
renewable $1,000 scholarship
Palmer High School Colorado Springs
*A Study of Environmental Hormones: Testing PVC Extract on Wild Fruit Flies*

**Intel Foundation**

**Intel Scholarship**

Keri Propst 12th grade
Merino Jr/Sr High School Merino
*A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression*

Keri Propst 12th grade
Merino Jr/Sr High School Merino
$1,000 scholarship to the college of choice

Merino Jr/Sr High School Merino
*A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression*

Nathan Davidson 12th grade
Monte Vista High School Monte Vista
$1,000 scholarship to the college of choice

Monte Vista High School Monte Vista
*Potential Inoculum Reservoir for PVY in the San Luis Valley, Colorado*

**Science Service**

**ASM International Foundation**

*Most Outstanding Exhibit in Materials Science*

Jessica Caver 10th grade
Woodlin School Woodrow
*Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds*

Conservation International

*Award in Biodiversity Conservation Science 2001*

Valerie Brice, Java Tunson & Anna Nussbaum 11th grade
certificate, Biodiversity Hotspots map
Palmer High School Colorado Springs
*The Biological, Chemical and Physical Interactions within a Wetland’s Ecosystem*

Discovery Communications, Inc.

*Discovery Young Scientist Challenge*

Kylee Willard 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Fort Lupton Middle School Fort Lupton
*Nutrient Difference in Local Farm Soils*

Meredith MacGregor 6th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Burbank Middle School Boulder
*Measuring the Sun’s Rotation at Solar Maximum*

Kalena Meine 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Mackintosh Academy Denver
*Earth or Bust! Making Fuel to Return from Mars*

Clark Patton 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Summit Middle School Boulder
*Feces Happens*

Graham Anderson 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
North Middle School Colorado Springs
*You’re an All-Star! An Experiment About Athletes and Visual Reflexes*

Matt Nobles 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Pagosa Springs Junior High School Pagosa Springs
*Knotty Math 2*

Marika Meertens 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Centennial Middle School Boulder
*Sticky Static*

Scott Japhet 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Miller Middle School Durango
*Enlightened Nerka: Response of Kokanee Salmon Fry to Light and Sound*
Kelsea Ferrato & Erika Langhart 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Miller Middle School Durango
The Big Burn: Immediate Post-Fire Effects of the Mesa Verde National Park Fires

Lauren Smith 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Mountain Ridge Middle School Colorado Springs
Transformation Efficiency of E. coli Using Aged Cultures

Thatcher Heumann 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Summit Middle School Boulder
The Heat Is On!

Kevin Weber 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Challenger Middle School Colorado Springs
Communicating at the Speed of Light: Free-Air Communications

Corey Swanson 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Fort Lupton Middle School Fort Lupton
The Effect of Radiation on Seed Germination, Plant Growth and Their Chromosomes

Alex West 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
West Jefferson Middle School Conifer
Development of a Manipulative Model for Instruction in DNA Sequencing for Use in Public Schools

Tyler Nicely 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Home Schooled Colorado Springs
The Effects of MP3 Compression on Music Quality

Meredith Myre 6th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Miller Middle School Durango
The Effect of Heat and Humidity on Membranophones

Stacey Bartlett 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Merino Jr/Sr High School Merino
Gene Prints: Do Genetics Influence Fingerprints?

Molly Kraus & Hannah Kraus 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Pagosa Springs Junior High School Pagosa Springs
Biosphere: Controlled Ecological Life Support System

Eastman Kodak Company
Jacqueline Consaul 10th grade
certificate, Kodak camera and film (mailed later)
Del Norte High School Del Norte
The Effects of Blackleg (Erwinia carotovora) Innoculation on Three Sites on a Russet Norkotah 2 Potato Plant

Herbert Hoover Presidential Library Association
The Herbert Hoover Young Engineer Award
Ryan Patterson 11th grade
medallion, certificate
Central High School Grand Junction
They Came, They Saw, They Devoured

Intel Corporation
Intel Excellence in Environmental Health & Safety Award
Milena Pastore 11th grade
certificate, $200 (mailed later)
Monte Vista High School Monte Vista
They Came, They Saw, They Devoured

Intel Excellence in Computer Science Award
Brian Camley 10th grade
certificate, $200 (mailed later)
Palmer High School Colorado Springs
The New Polynomial Diet (Lose Pixels, Look Better): A Legendre Polynomial Based Alternative to JPEG

NACE International
Alyssa Hill 8th grade
certificate
Fort Morgan Middle School Fort Morgan
Rusty Chevrolet: The Effects of Ice Melting Compounds on Car Parts

Scientific American
Nathan Davidson 12th grade
certificate, subscription to Scientific American
Monte Vista High School Monte Vista
Potential Inoculum Reservoir for PVY in the San Luis Valley, Colorado

Evan Burgess 12th grade
certificate, subscription to Scientific American
Fairview High School Boulder
Dating Paleo-Glaciers with a GIS-Based Analysis of Moraine Erosion

Ryan Patterson 11th grade
certificate, subscription to Scientific American
Central High School Grand Junction
The Sign Translator

Milena Pastore 11th grade
certificate, subscription to Scientific American
Monte Vista High School Monte Vista
They Came, They Saw, They Devoured
Keri Propst 12th grade
certificate, subscription to Scientific American
Merino Jr/Sr High School Merino
A Possible Cystic Fibrosis Treatment: The Production of Glutathione by Inducing MRP Expression

Brian Camley 10th grade
certificate, subscription to Scientific American
Cherry Creek High School Greenwood Village
The New Polynomial Diet (Lose Pixels, Look Better): A Legendre Polynomial Based Alternative to JPEG

Jessica Caver 10th grade
certificate, subscription to Scientific American
Woodlin School Woodrow
Influence of an Aqueous Environment on the Solidification Behavior of Underwater Wet Welds

Betsy Taylor 12th grade
certificate, subscription to Scientific American
Palmer High School Colorado Springs
A Study of Environmental Hormones: Testing PVC Extract on Wild Fruit Flies

Curtis Larimer & Dave Wacker 9th grade
certificate, subscription to Scientific American
Palmer High School Colorado Springs
Mathematics Is Not Ready for Such Problems

Society for In Vitro Biology
April Mertens 11th grade
certificate
Merino Jr/Sr High School Merino
An In Vitro Approach to Study the Effects of Genetic Engineering on Antibiotic Resistance

United States Metric Association
Brandon Gosch 9th grade
certificate
Palmer High School Colorado Springs
The Erosion Effect: Soil Movement in the Garden of the Gods

United States Public Health Service
Bradley Proulx 8th grade
certificate
St. Mary’s of Littleton School Littleton
Up in Smoke

Water Environment Federation
Stockholm Junior Water Prize
Christine Knoblauch 11th grade
certificate, nomination to compete in the US State, National, and International SJWP competition
Monte Vista High School Monte Vista
Whose Fault Is It Anyway? The Alamosa River