Press Release

Colorado Science and Engineering Fair
will be held
April 10 - 12, 2003
at
Colorado State University
in the
Lory Student Center
and will feature research by
Colorado Students
Grades 6 - 12

Lauren Goulding - Palmer High School - Colorado Springs
2003 Colorado Science and Engineering Fair
Grand Awards Press Release

### Junior Division

<table>
<thead>
<tr>
<th>Best Individual Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Place</strong></td>
</tr>
<tr>
<td>Meredith MacGregor</td>
</tr>
<tr>
<td>8th grade</td>
</tr>
<tr>
<td><em>Dropping into Chaos</em></td>
</tr>
<tr>
<td>Burbank Middle School</td>
</tr>
<tr>
<td>Boulder</td>
</tr>
<tr>
<td><strong>2nd Place</strong></td>
</tr>
<tr>
<td>Timothy Schneider</td>
</tr>
<tr>
<td>7th grade</td>
</tr>
<tr>
<td><em>Can You Hear Me?</em></td>
</tr>
<tr>
<td>Miller Middle School</td>
</tr>
<tr>
<td>Durango</td>
</tr>
<tr>
<td><strong>3rd Place</strong></td>
</tr>
<tr>
<td>Adreanne Brungardt</td>
</tr>
<tr>
<td>8th grade</td>
</tr>
<tr>
<td><em>A Possible Mechanism for Explaining the Lake Nyos Tragedy</em></td>
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<tr>
<td>Brush Middle School</td>
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<tr>
<td>Brush</td>
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</table>

### Senior Division

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<thead>
<tr>
<th>Best Individual Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Place</strong></td>
</tr>
<tr>
<td>Jennifer McDonough</td>
</tr>
<tr>
<td>9th grade</td>
</tr>
<tr>
<td><em>Cruciferous Platthyelminthes</em></td>
</tr>
<tr>
<td>Palmer High School</td>
</tr>
<tr>
<td>Colorado Springs</td>
</tr>
<tr>
<td><strong>2nd Place</strong></td>
</tr>
<tr>
<td>Lauren Smith</td>
</tr>
<tr>
<td>10th grade</td>
</tr>
<tr>
<td><em>Xanthomonas campestris pv. Vesicatoria: A Study of The Relationship Between Extra-Cellular Material &amp; Heigtened Host Response</em></td>
</tr>
<tr>
<td>Rampart High School</td>
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<td>Colorado Springs</td>
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<tr>
<td><strong>3rd Place</strong></td>
</tr>
<tr>
<td>Lisa Saccomano</td>
</tr>
<tr>
<td>11th grade</td>
</tr>
<tr>
<td><em>Abnormal Otic Invagination with Possible Associations to OAV Spectrum</em></td>
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<tr>
<td>Cherry Creek High School</td>
</tr>
<tr>
<td>Greenwood Village</td>
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### Junior Division

<table>
<thead>
<tr>
<th>Best Team Projects</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1st Place</strong></td>
</tr>
<tr>
<td>Andy Ralston &amp; Josh King</td>
</tr>
<tr>
<td>8th grade</td>
</tr>
<tr>
<td><em>Bouncing Light</em></td>
</tr>
<tr>
<td>Bookcliff Middle School</td>
</tr>
<tr>
<td>Grand Junction</td>
</tr>
<tr>
<td><strong>2nd Place</strong></td>
</tr>
<tr>
<td>Brian Russell &amp; Vincent Rouse</td>
</tr>
<tr>
<td>7th grade</td>
</tr>
<tr>
<td><em>Bac In The Dish</em></td>
</tr>
<tr>
<td>St. Mary's School</td>
</tr>
<tr>
<td>Littleton</td>
</tr>
<tr>
<td><strong>3rd Place</strong></td>
</tr>
<tr>
<td>Natalia Wilkins</td>
</tr>
<tr>
<td>8th grade</td>
</tr>
<tr>
<td><em>Gravity vs. Velocity</em></td>
</tr>
<tr>
<td>Ricks Center for Gifted Students</td>
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<td>Denver</td>
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<table>
<thead>
<tr>
<th>Best Team Projects</th>
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<tbody>
<tr>
<td><strong>1st Place</strong></td>
</tr>
<tr>
<td>Andrew Leifer, Raymund To &amp; David Pothier</td>
</tr>
<tr>
<td>12th grade</td>
</tr>
<tr>
<td><em>Fractals, Power-Laws, and the Weibull Distribution: Mathematically Modeling Crumpled Paper</em></td>
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<tr>
<td>Fairview High School</td>
</tr>
<tr>
<td>Boulder</td>
</tr>
<tr>
<td><strong>2nd Place</strong></td>
</tr>
<tr>
<td>Brad Engel &amp; Brian Henning</td>
</tr>
<tr>
<td>10th grade</td>
</tr>
<tr>
<td><em>Ramifications of Temperature Fluctuations and Thrombolytic Enzymes</em></td>
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<tr>
<td>Greenwood Village</td>
</tr>
<tr>
<td><strong>3rd Place</strong></td>
</tr>
<tr>
<td>Levi Klausner</td>
</tr>
<tr>
<td>12th grade</td>
</tr>
<tr>
<td>Harold Klausner</td>
</tr>
<tr>
<td>9th grade</td>
</tr>
<tr>
<td><em>Wheat Variety Response to Drought</em></td>
</tr>
<tr>
<td>Woodlin School</td>
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<td>Woodrow</td>
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<table>
<thead>
<tr>
<th>Botany</th>
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<tbody>
<tr>
<td><strong>1st Place</strong></td>
</tr>
<tr>
<td>Michaela Kaiser</td>
</tr>
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<td>8th grade</td>
</tr>
<tr>
<td><em>How Fast Is the Clock Ticking? Titer vs. Time</em></td>
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<td>Sargent Junior High School</td>
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<tr>
<td>Monte Vista</td>
</tr>
<tr>
<td><strong>2nd Place</strong></td>
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<tr>
<td>Ashley Wilkinson</td>
</tr>
<tr>
<td>7th grade</td>
</tr>
<tr>
<td><em>Got Water?</em></td>
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<tr>
<td>Timberview Middle School</td>
</tr>
<tr>
<td>Colorado Springs</td>
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<tr>
<td><strong>3rd Place</strong></td>
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<tr>
<td>Jason Pope</td>
</tr>
<tr>
<td>6th grade</td>
</tr>
<tr>
<td><em>Hydroponics vs. Soil</em></td>
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<td>Fort Lupton Middle School</td>
</tr>
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<td>Fort Lupton</td>
</tr>
<tr>
<td><strong>Honorable Mention</strong></td>
</tr>
<tr>
<td>Amber Widgery</td>
</tr>
<tr>
<td>7th grade</td>
</tr>
<tr>
<td><em>To Grow or Not to Grow</em></td>
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<td>Haxton Middle School</td>
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<tr>
<td><strong>Honorable Mention</strong></td>
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<tr>
<td>Lydia Van Derra</td>
</tr>
<tr>
<td>8th grade</td>
</tr>
<tr>
<td><em>Corn Emergence</em></td>
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<td>Yuma Middle School</td>
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<tr>
<td>Stephen Ben Majed</td>
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<tr>
<td>6th grade</td>
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<tr>
<td><em>Survival of the Fittest</em></td>
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<td>Fort Lupton Middle School</td>
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</table>
# Senior Division

## Botany

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<tr>
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<td>Colorado Springs</td>
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<table>
<thead>
<tr>
<th>2nd Place</th>
<th>Tom Herter</th>
<th>10th grade</th>
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<tbody>
<tr>
<td><em>Hylemya sp.'s Effects on Fitness of Polemonium foliosissimum</em></td>
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<td>Meeker High School</td>
<td>Meeker</td>
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<table>
<thead>
<tr>
<th>3rd Place</th>
<th>Heather Messick</th>
<th>11th grade</th>
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<tbody>
<tr>
<td><em>The Effects of Seed Treatments in Tuberization of Potatoes</em></td>
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<td>Sargent High School</td>
<td>Monte Vista</td>
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## Team Award

<table>
<thead>
<tr>
<th>Levi Klausner</th>
<th>12th grade</th>
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</thead>
<tbody>
<tr>
<td><em>Wheat Variety Response to Drought</em></td>
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<tr>
<td>Woodlin School</td>
<td>Woodrow</td>
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## Honorable Mention

<table>
<thead>
<tr>
<th>Linell Griffin</th>
<th>10th grade</th>
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<tbody>
<tr>
<td><em>Dead or Dormant? The Effects of Herbicides on Convolvulus arvensis</em></td>
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<td>Walsh Jr/Sr High School</td>
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# Junior Division

## Chemistry

<table>
<thead>
<tr>
<th>1st Place</th>
<th>Tyler Keck</th>
<th>9th grade</th>
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</thead>
<tbody>
<tr>
<td><em>The Super Absorber: Using Sodium Polyacrylate to Absorb Metals in Water</em></td>
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<tr>
<td>Monte Vista High School</td>
<td>Monte Vista</td>
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<table>
<thead>
<tr>
<th>2nd Place</th>
<th>Adam Brungardt</th>
<th>12th grade</th>
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<tbody>
<tr>
<td><em>Effect of Varying Electrical Potential on Liesegang Rings Growth</em></td>
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<td>Brush High School</td>
<td>Brush</td>
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<table>
<thead>
<tr>
<th>3rd Place</th>
<th>Autumn Petros-Good</th>
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<tbody>
<tr>
<td><em>Colored Chemical Chaos: The Absorption of Light Wavelengths</em></td>
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<tr>
<td>Palmer High School</td>
<td>Colorado Springs</td>
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## Earth & Space Sciences

<table>
<thead>
<tr>
<th>1st Place</th>
<th>Adreanne Brungardt</th>
<th>8th grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>A Possible Mechanism for Explaining the Lake Nyos Tragedy</em></td>
<td></td>
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<td>Brush Middle School</td>
<td>Brush</td>
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<table>
<thead>
<tr>
<th>2nd Place</th>
<th>Jeffrey Hrncir</th>
<th>8th grade</th>
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<tbody>
<tr>
<td><em>Reconstructing the Paleoclimate of the Green River Formation</em></td>
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<td>East Middle School</td>
<td>Grand Junction</td>
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<table>
<thead>
<tr>
<th>3rd Place</th>
<th>Dailey Kluck</th>
<th>6th grade</th>
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</thead>
<tbody>
<tr>
<td><em>Wind Blocks</em></td>
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<td></td>
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<tr>
<td>Centennial Middle School</td>
<td>Boulder</td>
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## Senior Division

## Earth & Space Sciences

<table>
<thead>
<tr>
<th>1st Place</th>
<th>Graham Anderson</th>
<th>9th grade</th>
</tr>
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<tbody>
<tr>
<td><em>What a Scorching State! Is Urban Growth Worsening Drought in Colorado?</em></td>
<td></td>
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<tr>
<td>Palmer High School</td>
<td>Colorado Springs</td>
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### Junior Division

#### Engineering

<table>
<thead>
<tr>
<th>Place</th>
<th>Project Title</th>
<th>Grade</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Can You Hear Me?</td>
<td>7th</td>
<td>Miller Middle School</td>
</tr>
<tr>
<td>2nd</td>
<td>Wireless Moisture Detector For G-Tube Feedings</td>
<td>8th</td>
<td>Jefferson Academy Junior High School</td>
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<tr>
<td>3rd</td>
<td>Magnets And Maglev</td>
<td>7th</td>
<td>St. Columba School</td>
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<tr>
<td>Team Award Nomination</td>
<td>Bouncing Light</td>
<td>8th</td>
<td>Bookcliff Middle School</td>
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<tr>
<td>Team Award Nomination</td>
<td>Helping the Hearing Impaired</td>
<td>6th</td>
<td>Miller Middle School</td>
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<tr>
<td>Honorable Mention</td>
<td>Kevin Gao</td>
<td>8th</td>
<td>Burbank Middle School</td>
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<tr>
<td>Honorable Mention</td>
<td>Ion Propulsion Engine: To Space and Beyond</td>
<td>8th</td>
<td>Boulder</td>
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<tr>
<td>Honorable Mention</td>
<td>Lights, Projector, Action!</td>
<td>8th</td>
<td>Rocky Mountain Hebrew Academy</td>
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<tr>
<td>Honorable Mention</td>
<td>A Water Powered Gameboy</td>
<td>6th</td>
<td>West Jefferson Middle School</td>
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#### Environmental Sciences

<table>
<thead>
<tr>
<th>Place</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>1st</td>
<td>Forest Fire Fuels</td>
<td>8th</td>
<td>West Jefferson Middle School</td>
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<tr>
<td>2nd</td>
<td>The Rehabilitation of Burned Areas</td>
<td>8th</td>
<td>North Middle School</td>
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<td>3rd</td>
<td>Oil Pollution Solution II</td>
<td>8th</td>
<td>Haxtun Middle School</td>
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<td>Honorable Mention</td>
<td>Lights Out: Exploring the Electrical Conductivity Of MgCl₂</td>
<td>7th</td>
<td>Woodlin School</td>
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<td>Cooking: A Matter of Life or Death</td>
<td>7th</td>
<td>St. Mary's School</td>
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### Senior Division

#### Engineering

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<tbody>
<tr>
<td>1st</td>
<td>Sailplane Winch Launch Telemetry and Data-Logging</td>
<td>11th</td>
<td>Ussery Home School</td>
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<tr>
<td>2nd</td>
<td>Designing an Innovative Micropump</td>
<td>11th</td>
<td>Woodlin School</td>
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<td>3rd</td>
<td>Spinning Wind Energy in a New Direction: The Darrieus Vertical Axis Wind Turbine</td>
<td>9th</td>
<td>Palmer High School</td>
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<td>Honorable Mention</td>
<td>The Role of Oxygen in Cobalt Doped Titanium Oxide Thin Films</td>
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<td>Colorado Springs</td>
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#### Environmental Sciences

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<tr>
<td>1st</td>
<td>Designing and Testing Solids To Remove Arsenic</td>
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<td>2nd</td>
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<td>Honorable Mention</td>
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</table>
2nd Place
Katherine Hermann 10th grade
*The Development of an Analytical Method by Which to Measure 1, 3, 7 - Trimethyl-xanthine in Water Samples*
Boulder High School Boulder

3rd Place
Laurie Cornell 12th grade
*Pass the Salt: The Ecological Impacts of Magnesium Chloride De-Icer on Roadside Vegetables in the Nederland Region*
Nederland Middle/Senior High School Nederland

Honorable Mention
Kendra Kailey 12th grade
*Watch the Burn: Promoting Fire Resistance in Grass Landscapes*
Merino Jr/Sr High School Merino

Junior Division
Health & Behavioral Sciences

1st Place
Yael Munishor 7th grade
*Got Milk?*
Rocky Mountain Hebrew Academy Denver

2nd Place
Richelle Fritzler 7th grade
*Got Milk? Got Hormones? A Study Done with Bovine Somatotropin and Grout*
Merino Jr/Sr High School Merino

3rd Place
Taylor Thompson 7th grade
*The Effect of Ephedra on Hissing Cockroaches*
Merino Jr/Sr High School Merino

Team Award Nomination
Rebecca Siegel & Zoe Dostal 6th grade
*Memorize to the Beat*
West Middle School Colorado Springs

Honorable Mention
Shana Keilson 7th grade
*Calcium - Do You Get Enough? Perception vs. Reality*
Boulder Country Day School Boulder

Honorable Mention
Julia Nell 6th grade
*Driving Reaction Times*
Pagosa Springs Intermediate School Pagosa Springs

Honorable Mention
Emily Rotbart 7th grade
*It's All Chinese to Me! The Effect of Women's and Girl's Ages on Learning and Retention*
Rocky Mountain Hebrew Academy Denver

Senior Division
Health & Behavioral Sciences

1st Place
Lisa Saccomano 11th grade
*Abnormal Otic Invagination with Possible Associations to OAV Spectrum*
Cherry Creek High School Greenwood Village

2nd Place
Kelly Cook 9th grade
Boltz Junior High School Fort Collins

3rd Place
Diane Gumina 11th grade
*A Possible Breast Cancer Treatment: Interferon Alpha Combined with Indole-3-Carbinol*
Merino Jr/Sr High School Merino

Honorable Mention
Amber Henry 11th grade
*Biometric Identification: An Analysis of Lannarelli's System of Ear Identification*
Hi-Plains High School Seibert

Junior Division
Mathematics & Computer Sciences

1st Place
Chelsea Oden 7th grade
*Pursuing Patterns in Primes*
Monte Vista Middle School Monte Vista

2nd Place
Matt Zubiel 7th grade
*Visual Password System*
Creekside Middle School Monument

3rd Place
Caitlin Pomeroy 7th grade
*Diggin' Trig: Sun Light, Sun Bright, Can I Measure the Sun Before Night?*
Merino Jr/Sr High School Merino

Honorable Mention
Ian Springer 8th grade
*Robotic Rescue - Designing and Building a Light Sensing Robot for Search and Rescue of Disaster*
Lamar Middle School Lamar
### Senior Division
#### Mathematics & Computer Sciences

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<thead>
<tr>
<th>Place</th>
<th>Name</th>
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<tbody>
<tr>
<td>1st</td>
<td>Brian Camley</td>
<td>12th</td>
<td>The Telltale Heart of Darkness: Differentiating Between Authors - Beyond Naïve Bayesian Classification</td>
</tr>
<tr>
<td>2nd</td>
<td>Brad Klingenberg</td>
<td>12th</td>
<td>Tinder Box: An Exploration in Geopolitical Modeling, Abstraction, and Statistical Inference</td>
</tr>
<tr>
<td>3rd</td>
<td>Gabriel Recchia</td>
<td>12th</td>
<td>Creating Application-Independent Accessibility Software for the Mobility Impaired</td>
</tr>
<tr>
<td></td>
<td>Team Award</td>
<td></td>
<td>Fractals, Power-Laws, and the Weibull Distribution: Mathematically Modeling Crumpled Paper</td>
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<td>Honorable Mention</td>
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<td>Density of Bacteria on Public Surfaces II</td>
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### Senior Division
#### Microbiology

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<th>Name</th>
<th>Grade</th>
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<tbody>
<tr>
<td>1st</td>
<td>Kayla Zimmerman</td>
<td>11th</td>
<td>The Effect of Three Types of Mulches on Soil Dwelling Bacteria in a Peach Orchard in Western Colorado</td>
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<tr>
<td>2nd</td>
<td>Jessica Stroud</td>
<td>9th</td>
<td>Along Came a Spider</td>
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<tr>
<td>3rd</td>
<td>Heather McGuire</td>
<td>10th</td>
<td>Selenium Utilization as Protection from Oxidative Stress Induced by Ultraviolet Radiation</td>
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<tr>
<td></td>
<td>Honorable Mention</td>
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<td>Density of Bacteria on Public Surfaces II</td>
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#### Microbiology

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<thead>
<tr>
<th>Place</th>
<th>Name</th>
<th>Grade</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Anita Lowe</td>
<td>8th</td>
<td>The Effects of Pulsed DC Electricity on Pond Water Bacteria</td>
</tr>
<tr>
<td>2nd</td>
<td>Mikaila Way</td>
<td>7th</td>
<td>An Apple a Day Keeps the Dentist Away?</td>
</tr>
<tr>
<td>3rd</td>
<td>Michael Dango</td>
<td>8th</td>
<td>Augmenting Bioremediation</td>
</tr>
<tr>
<td></td>
<td>Team Award</td>
<td></td>
<td>Bac in the Dish</td>
</tr>
<tr>
<td></td>
<td>Honorable Mention</td>
<td></td>
<td>Gravity vs. Velocity</td>
</tr>
</tbody>
</table>

### Junior Division
#### Physics

<table>
<thead>
<tr>
<th>Place</th>
<th>Name</th>
<th>Grade</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Meredith MacGregor</td>
<td>8th</td>
<td>Dropping into Chaos</td>
</tr>
<tr>
<td>2nd</td>
<td>Jake Harman</td>
<td>6th</td>
<td>Predicting Viscosity Using Rotational Velocity</td>
</tr>
<tr>
<td>3rd</td>
<td>Dominic Fuller-Rowell</td>
<td>6th</td>
<td>Sound Is Supersonic</td>
</tr>
<tr>
<td></td>
<td>Team Award</td>
<td></td>
<td>Gravity vs. Velocity</td>
</tr>
<tr>
<td></td>
<td>Honorable Mention</td>
<td></td>
<td>Density of Bacteria on Public Surfaces II</td>
</tr>
</tbody>
</table>

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### Senior Division

#### Physics

<table>
<thead>
<tr>
<th>Place</th>
<th>Student Name</th>
<th>Grade</th>
<th>School</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Leota McDaniel</td>
<td>12th</td>
<td>Brush High School</td>
<td>Brush</td>
</tr>
<tr>
<td></td>
<td>An Investigation into the Leidenfrost Phenomenon</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>William Eucker</td>
<td>11th</td>
<td>George Washington High School</td>
<td>Denver</td>
</tr>
<tr>
<td></td>
<td>Field Emission Capability vs. Diameter of Vertically Aligned MWNTs</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>Colin Olivier</td>
<td>9th</td>
<td>Palmer High School</td>
<td>Colorado Springs</td>
</tr>
<tr>
<td></td>
<td>Landslide Generated Mega-Tsunami</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Zoology

<table>
<thead>
<tr>
<th>Place</th>
<th>Student Name</th>
<th>Grade</th>
<th>School</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Jennifer McDonough</td>
<td>9th</td>
<td>Palmer High School</td>
<td>Colorado Springs</td>
</tr>
<tr>
<td></td>
<td>Cruciferous Platyhelminthes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>Mackenzie Peake</td>
<td>12th</td>
<td>Merino Jr/Sr High School</td>
<td>Merino</td>
</tr>
<tr>
<td></td>
<td>Parkinson's Medication Dilemma: Folate Supplementation to Reduce L-dopa's Risk</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>3rd</td>
<td>Phillip Torres</td>
<td>11th</td>
<td>Cherry Creek High School</td>
<td>Greenwood Village</td>
</tr>
<tr>
<td></td>
<td>Slow Down</td>
<td>10th</td>
<td>Gilpin County School</td>
<td>Black Hawk</td>
</tr>
<tr>
<td></td>
<td>The Best Wing Angle for Absorbing Heat from Light in Nymphalis antiopa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Honorable Mention</td>
<td>Scott Headrick</td>
<td>10th</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Slow Down</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Scott Headrick</td>
<td>10th</td>
<td>Gilpin County School</td>
<td>Black Hawk</td>
</tr>
</tbody>
</table>

### Junior Division

#### Zoology

<table>
<thead>
<tr>
<th>Place</th>
<th>Student Name</th>
<th>Grade</th>
<th>School</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Holli Linman</td>
<td>8th</td>
<td>Crawford School</td>
<td>Crawford</td>
</tr>
<tr>
<td></td>
<td>Flying Jewels</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd</td>
<td>Clare O'Connor-Seville</td>
<td>6th</td>
<td>Dolores Middle School</td>
<td>Dolores</td>
</tr>
<tr>
<td></td>
<td>Ips Beetles</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3rd</td>
<td>Lisa Han</td>
<td>6th</td>
<td>Summit Middle School</td>
<td>Boulder</td>
</tr>
<tr>
<td></td>
<td>Comparison of Life Spans of the Free Living Nematode C. elegans from Three Geographical Locations</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Zoology

<table>
<thead>
<tr>
<th>Place</th>
<th>Student Name</th>
<th>Grade</th>
<th>School</th>
<th>Location</th>
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</thead>
<tbody>
<tr>
<td>Honorable Mention</td>
<td>Justin Boren</td>
<td>7th</td>
<td>St. Columba School</td>
<td>Durango</td>
</tr>
<tr>
<td></td>
<td>Dead or Alive</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Honorable Mention**
  - Lenny Benton: Mousetrap Dragster (Honorable Mention, 8th grade, Benton Home School, Saguache)
  - Diana Qiu: Lorentz Force (Honorable Mention, 8th grade, North Middle School, Colorado Springs)
  - Scott Headrick: Slow Down (Honorable Mention, 10th grade, Gilpin County School, Black Hawk)
  - Phillip Torres: The Best Wing Angle for Absorbing Heat from Light in Nymphalis antiopa (Honorable Mention, 11th grade, St. Columba School, Durango)
2003 Colorado Science and Engineering Fair
Special Awards Press Release

Colorado Science and Engineering Fair

Ralph Desch Memorial Technical Writing Award

Jeff Marlow 12th grade
$100, certificate
Cherry Creek High School Greenwood Village
The Role of Oxygen in Cobalt Doped Titanium Oxide Thin Films

Student Choice Award

Ian Springer 8th grade
$25, trophy
Lamar Middle School Lamar
Robotic Rescue - Designing and Building a Light Sensing Robot for Search and Rescue of Disaster Victims

Kelly Cook 9th grade
$25, trophy
Boltz Junior High School Fort Collins

Poster Art Contest

Morgan Edwards certificate, $100
High Country Christian Academy Colorado Springs

Military

United States Air Force
Air Force ROTC Award

Daniel Armstrong 8th grade
certificate, planner
Monte Vista Middle School Monte Vista
Medieval Physics

Jennifer McDonough 9th grade
certificate, planner
Palmer High School Colorado Springs
Cruciferous Platyhelminthes

Nolan Cmerek 12th grade
certificate, planner
Hotchkiss High School Hotchkiss
Effects of Specific Design Modifications on the Capabilities of Airfoils - Phase II

United States Air Force Research Laboratory
The Century of Flight Award

Timothy Schneider 7th grade
Miller Middle School Durango
Can You Hear Me?

Craig Wright 11th grade
Woodlin School Woodrow
Designing an Innovative Micropump

United States Army

Matt Zubiel 7th grade
certificate, $50 savings bond
Creekside Middle School Monument
Visual Password System

Jessica Sidman 11th grade
certificate, $50 savings bond
Palmer High School Colorado Springs
The Filtering Effects of Anodonta grandis

Amy Davies 11th grade
certificate, $50 savings bond
Brush High School Brush
Shakin' It Up: A Study on Sedimentation

Emma McCracle 12th grade
certificate, $100 savings bond
Monte Vista High School Monte Vista
Is Your Plastic Board?

Mackenzie Peake 12th grade
certificate, $100 savings bond, bronze medallion
Merino Jr/Sr High School Merino
Parkinson's Medication Dilemma: Folate Supplementation to Reduce L-dopa's Risk

United States Navy & United States Marine Corps
Office of Naval Research Award

Chelsea Oden 7th grade
certificate
Monte Vista Middle School Monte Vista
Pursuing Patterns in Primes

Sarah Owens 7th grade
certificate
Merino Jr/Sr High School Merino
The Cutting Edge: The Union of Staphylococcus and Lactobacillus in Limiting Surgical Infection

Brian Camley 12th grade
certificate, educational recognition award valued at over $50.00 to be used for educational purposes including supplies for a future science project
Palmer High School Colorado Springs
The Telltale Heart of Darkness: Differentiating Between Authors - Beyond Naïve Bayesian Classification

William Eucker 11th grade
certificate, educational recognition award valued at over $50.00 to be used for educational purposes including supplies for a future science project
George Washington High School Denver
Field Emission Capability vs. Diameter of Vertically Aligned MWNTs
Leyton Laybourn 11th grade certificate, educational recognition award valued at over $50.00 to be used for educational purposes including supplies for a future science project
Arickaree School Anton*
*Designing a Constant Temperature Reduced Pressure Drying System

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American Association of University Women

Molly May 7th grade $100
St. Columba School Durango
Magnets and Maglev

American Chemical Society, Colorado Section

Lauren Butero 8th grade certificate, cash award
Bayfield Middle School Bayfield
Up In Smoke - Flammability Testing Children's Sleepwear
Tyler Keck 9th grade certificate, cash award
Monte Vista High School Monte Vista
The Super Absorber: Using Sodium Polyacrylate To Absorb Metals In Water

American Institute of Chemical Engineers’ Rocky Mountain Section

John Heermann 8th grade $75
Haxtun Middle School Haxtun
Oil Pollution Solution II
Jessica Caver 12th grade $100
Woodlin School Woodrow
Designing and Testing Solids to Remove Arsenic

American Meteorological Society Denver/Boulder Chapter

Allyson Claybaugh 6th grade certificate, prize worth $50
West Jefferson Middle School Conifer
Tornadoes: The Fearful Weather of Extreme Destruction to Nature
Danielle Nuding 10th grade certificate, prize worth $50
Liberty High School Joes
Lightning . . . Is It the Answer?

American Vacuum Society Rocky Mountain Chapter

Kevin Gao 8th grade $50, $50 for winner's school
Burbank Middle School Boulder
Ion Propulsion Engine: To Space and Beyond

Jake Harman 6th grade $100, $100 for winner's school
Centennial Middle School Boulder
Predicting Viscosity Using Rotational Velocity
Jeff Marlow 12th grade $50, $50 for winner's school
Cherry Creek High School Greenwood Village
The Role of Oxygen in Cobalt Doped Titanium Oxide Thin Films
Jessica Caver 12th grade $100, $100 for winner's school
Woodlin School Woodrow
Designing and Testing Solids to Remove Arsenic

American Water Works Association Rocky Mountain Section

Rachel Doyle 11th grade plaque, $50
Monte Vista High School Monte Vista
The Effect of Yearly Precipitation on Water Quality in the Rio Grande River of Colorado
Tyler Keck 9th grade plaque, $75
Monte Vista High School Monte Vista
The Super Absorber: Using Sodium Polyacrylate to Absorb Metals in Water
Balaji Sridhar 10th grade plaque, $100
Cherry Creek High School Greenwood Village
Removal of Arsenic Residues from Drinking Water Treatment

Analex Corporation

Gabriel Recchia 12th grade certificate, $100
Berthoud High School Berthoud
Creating Application-Independent Accessibility Software for the Mobility Impaired
Brad Klingenberg 12th grade certificate, $100
Greeley Central High School Greeley
Tinder Box: An Exploration in Geopolitical Modeling, Abstraction, and Statistical Inference

ASM International Rocky Mountain Chapter

Emily Jones 6th grade $50
Windsor Charter Academy Windsor
The Tensil Strength of Guitar Strings
Jeff Marlow 12th grade $75
Cherry Creek High School Greenwood Village
The Role of Oxygen in Cobalt Doped Titanium Oxide Thin Films
**Association for Women Geoscientists Denver Chapter**

Elizabeth Garcia 6th grade
$50, rock sample
Sargent Elementary School Monte Vista
Rock-n-Roll

Jade Brooks 11th grade
$50, rock sample
Sierra Grande School Fort Garland/Blanca
Hydrophobicity: How Hydrophobic Soils Affect Runoff within a Watershed

**Association of Engineering Geologists Rocky Mountain Section**

Joelle Dozoretz 7th grade
AEG folder w/calculator, invitation to present at the AEG Annual Meeting this September in Vail, CO
Rocky Mountain Hebrew Academy Denver
Shake 'n' Break

Jade Brooks 11th grade
AEG folder w/calculator, invitation to present at the AEG Annual Meeting this September in Vail, CO
Sierra Grande School Fort Garland/Blanca
Hydrophobicity: How Hydrophobic Soils Affect Runoff within a Watershed

**Colorado Association of Science Teachers**

Forrest Friesen 8th grade
$50, certificate
North Middle School Colorado Springs
Magnetically Levitated vs. Conventional Vehicles: The Effects of Friction on Velocity and Acceleration

Taylor Thompson 7th grade
$50, certificate
Merino Jr/Sr High School Merino
The Effect of Ephedra on Hissing Cockroaches

Brian Camley 12th grade
$50, certificate
Palmer High School Colorado Springs
The Telltale Heart of Darkness: Differentiating Between Authors - Beyond Naïve Bayesian Classification

Janice Bowers 12th grade
$50, certificate
Woodlin School Woodrow
Using Blood Spattering As a Forensic Analysis

**Colorado Biology Teachers Association**

Amber Ladd 7th grade
$50, plaque
Merino Jr/Sr High School Merino
It's Time to Change: A Comparison of Growth and Leaching of Rotated and Non-Rotated Soils

Levi Klausner 12th grade
Harold Klausner 9th grade
$50, plaque
Woodlin School Woodrow
Wheat Variety Response to Drought

**Colorado Dental Association**

Abi McGaha Miller 8th grade
certificate, quasar pen
Boltz Junior High School Fort Collins
The Effects of Whitening Agents on Teeth

Mikaila Way 7th grade
$25, plaque
West Jefferson Middle School Conifer
An Apple a Day Keeps the Dentist Away?

Andrea Buxton 9th grade
$50, plaque
McClave High School McClave
The Abrasive Question: Amalgam vs. Composites

**Colorado Division of Wildlife**

Maggie Reinsvold 9th grade
packet of Colorado Wildlife products, free admission to a Wildlife Watch Workshop
Frontier Academy Greeley
The Effect of Magnesium Chloride on Aquatic Life

**Colorado Environmental Health Association**

$100, plaque
Jessica Sidman 11th grade
Palmer High School Colorado Springs
The Filtering Effects of Anodonta grandis

**Colorado Foundation for Agriculture Agriculture in the Classroom Award**

Justin Boren 7th grade
certificate, $50
St. Columba School Durango
Dead or Alive

Adrienne Blum 8th grade
certificate, $50
Rocky Mountain Hebrew Academy Denver
Saltgreens

Heather Messick 11th grade
certificate, $50
Sargent High School Monte Vista
The Effects of Seed Treatments in Tuberculosis of Potatoes

Kayla Zimmerman 11th grade
certificate, $50
Hotchkiss High School Hotchkiss
The Effect of Three Types of Mulches on Soil Dwelling Bacteria in a Peach Orchard in Western Colorado

**Colorado Geological Survey**

Jeffrey Hrncir 8th grade
$75
East Middle School Grand Junction
Reconstructing the Paleoclimate of the Green River Formation
Jade Brooks 11th grade
$75
Sierra Grande School Fort Garland/Blanca
Hydrophobicity: How Hydrophobic Soils Affect Runoff within a Watershed

**Colorado Medical Society Education Foundation**

Jaimie Jennings 6th grade
$100, invitation to exhibit at the Annual meeting and attendance at Presidential Inaugural Dinner
North Middle School Colorado Springs
Just Wash Your Hands!

Diane Gumina 11th grade
$100, invitation to exhibit at the Annual meeting and attendance at Presidential Inaugural Dinner
Merino Jr/Sr High School Merino
A Possible Breast Cancer Treatment: Interferon Alpha Combined with Indole-3-Carbinol

**Colorado Mineral Society**

Jeffrey Hrncir 8th grade
$25, 2 mineral specimens, certificate, book
East Middle School Grand Junction
Reconstructing the Paleoclimate of the Green River Formation

Elizabeth Garcia 6th grade
$40, 2 mineral specimens, certificate, book
Sargent Elementary School Monte Vista
Rock-n-Roll

Tyler Benton 10th grade
$25, 2 mineral specimens, certificate, book
Stratton High School Stratton
Determining Ice Core Storage Efficacy Using Oxygen Isotope Comparisons

Tyler Keck 9th grade
$40, 2 mineral specimens, certificate, book
Monte Vista High School Monte Vista
The Super Absorber: Using Sodium Polyacrylate to Absorb Metals in Water

**Colorado Mycological Society**

Michael Dango 8th grade
$25, book on fungi, certificate
Challenger Middle School Colorado Springs
Augmenting Bioremediation

**Colorado Scientific Society**

Adreanne Brungardt 8th grade
$50
Brush Middle School Brush
A Possible Mechanism for Explaining the Lake Nyos Tragedy

Jeffrey Hrncir 8th grade
$75
East Middle School Grand Junction
Reconstructing the Paleoclimate of the Green River Formation

Adam Maerz 12th grade
$75
Monarch High School Louisville
Avalanche Prediction Using High Frequency Radar

Tyler Benton 10th grade
$100
Stratton High School Stratton
Determining Ice Core Storage Efficacy Using Oxygen Isotope Comparisons

**Colorado Sustainability Project**

John Heermann 8th grade
$50, certificate, information on sustainability
Haxtun Middle School Haxtun
Oil Pollution Solution II

Michael Dango 8th grade
$100, certificate, information on sustainability
Challenger Middle School Colorado Springs
Augmenting Bioremediation

Adam Sidman 9th grade
$50, certificate, information on sustainability
Palmer High School Colorado Springs
Spinning Wind Energy in a New Direction: The Darrieus Vertical Axis Wind Turbine

Leyton Laybourn 11th grade
$100, certificate, information on sustainability
Arickaree School Anton
Designing a Constant Temperature Reduced Pressure Drying System

**Colorado Veterinary Medical Association**

Richelle Fritzler 7th grade
certificate, gold medallion, $50
Merino Jr/Sr High School Merino
Got Milk? Got Hormones? A Study Done with Bovine Somatotropin and Grout

Kelly Haller 12th grade
certificate, gold medallion, $50
Woodlin School Woodrow
The Effects of N-3 Fatty Acids on Inflammatory Mediators in Arthritic Patients

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

Lisa Saccomano 11th grade
certificate, $100
Cherry Creek High School Greenwood Village
Abnormal Otic Invagination with Possible Associations to OAV Spectrum

**Colorado State University Department of Chemistry**

Leah Flink 8th grade
certificate, cash award
Turner Middle School Berthoud
What Color Was the Black Ink?
Colorado State University
Dept. of Horticulture & Landscape Architecture
Michaela Kaiser 8th grade
$100
Sargent Junior High School Monte Vista
*How Fast Is the Clock Ticking? Titer vs. Time*

Tom Herter 10th grade
$100
Meeker High School Meeker
*Hylemya sp.'s Effects on Fitness of Polemonium foliosissimum*

Lauren Smith 10th grade
$100
Rampart High School Colorado Springs
*Xanthomonas campestris pv. Vesicatoria: A Study of the Relationship between Extra-Cellular Material & Heightened Host Response*

Fort Collins Soil Conservation District
Jason Pope 6th grade
$50, plaque
Fort Lupton Middle School Fort Lupton
*Hydroponics vs. Soil*

Heather Messick 11th grade
$50, plaque
Sargent High School Monte Vista
*The Effects of Seed Treatments in Tuberization of Potatoes*

Intel Corporation
Timothy Schneider 7th grade
laptop computer
Miller Middle School Durango
*Can You Hear Me?*

Jennifer McDonough 9th grade
laptop computer
Palmer High School Colorado Springs
*Cruciferous Platyhelminthes*

Kodak Colorado Division
Lauren Butero 8th grade
APS camera
Bayfield Middle School Bayfield
*Up in Smoke - Flammability Testing Children's Sleepwear*

Danielle Nuding 10th grade
APS camera
Liberty High School Joes
*Lightning . . . Is It the Answer?*

Lockheed Martin Astronautics
Nolan Cmerek 12th grade
Atlas V rocket model
Hotchkiss High School Hotchkiss
*Effects of Specific Design Modifications on the Capabilities of Airfoils - Phase II*

National Geophysical Data Center
Dailey Kluck 6th grade
certificate, plaque, $100 savings bond
Centennial Middle School Boulder
*Wind Blocks*

National Renewable Energy Laboratory
Dylan McKie 7th grade
$100
Yuma Middle School Yuma
*Fossil Fuels: Who Needs Them?*

Optical Society of America
Rocky Mountain Section
Lisa Campbell 6th grade
subscription to Discover magazine, certificate
Centennial Middle School Boulder
*As Far As the Eye Can See: Experiments with Solar Beads*

Kelly Cook 9th grade
subscription to Discover magazine, certificate
Boltz Junior High School Fort Collins

Rocky Mountain Association of Geologists
Jeffrey Hrncir 8th grade
certificate, cash award (mailed later)
East Middle School Grand Junction
*Reconstructing the Paleoclimate of the Green River Formation*

Elizabeth Garcia 6th grade
certificate, cash award (mailed later)
Sargent Elementary School Monte Vista
*Rock-n-Roll*

Tyler Benton 10th grade
certificate, cash award (mailed later)
Stratton High School Stratton
*Determining Ice Core Storage Efficacy Using Oxygen Isotope Comparisons*

Rocky Mountain Inventors & Entrepreneurs Congress
Gabriel Recchia 12th grade
certificate, cash award (mailed later)
Berthoud High School Berthoud
*Creating Application-Independent Accessibility Software for the Mobility Impaired*
**Outstanding Innovation Award**

Zachary Zillmann  
Jefferson Academy Junior High School Broomfield  
Wireless Moisture Detector for G-Tube Feedings

**Best Divisional Project Awards**

Sarah Owens  
Merino Jr/Sr High School Merino  
The Cutting Edge: The Union of Staphylococcus and Lactobacillus in Limiting Surgical Infection

Lauren Smith  
Rampart High School Colorado Springs  
Xanthomonas campestris pv. Vescicatoria: A Study of the Relationship between Extra-Cellular Material & Heightened Host Response

Robert Ussery  
Ussery Home School Fort Collins  
Sailplane Winch Launch Telemetry and Data-Logging

**Rocky Mountain Water Environment Association**

Jeffrey Lipinski  
St. John the Evangelist School Loveland  
What Is the Water Quality of Boyd Lake During a Drought Season?

Adreanne Brungardt  
Brush Middle School Brush  
A Possible Mechanism for Explaining the Lake Nyos Tragedy

Katherine Hermann  
Boulder High School Boulder  
The Development of an Analytical Method by Which to Measure 1, 3, 7 - Trimethyl-xanthine in Water Samples

Jessica Sidman  
Palmer High School Colorado Springs  
The Filtering Effects of Anodonta grandis

**Society of Manufacturing Engineers Chapter 354, Electro-Mechanical**

Forrest Friesen  
North Middle School Colorado Springs  
Magnetically Levitated vs. Conventional Vehicles: The Effects of Friction on Velocity and Acceleration

Craig Wright  
Woodlin School Woodrow  
Designing an Innovative Micropump

**Society of Women Engineers Rocky Mountain Section**

Molly May  
St. Columba School Durango  
Magnets and Maglev

Kristine Thompson  
West Jefferson Middle School Conifer  
A Water Powered Gameboy

Sarah Finney  
Hotchkiss High School Hotchkiss  
Unstoppable Windpower

Emma McArdle  
Monte Vista High School Monte Vista  
Is Your Plastic Board?

**Soil and Water Conservation Society Colorado Chapter**

Jason Pope  
Fort Lupton Middle School Fort Lupton  
Hydroponics vs. Soil

Dailey Kluck  
Centennial Middle School Boulder  
Wind Blocks

Maggie Reinsvold  
Frontier Academy Greeley  
The Effect of Magnesium Chloride on Aquatic Life

Levi Klausner  
Harold Klausner  
Woodlin School Woodrow  
Wheat Variety Response to Drought

**University of Colorado Denver Health Sciences Center Medical Scientist Training Program**

Diane Gumina  
Merino Jr/Sr High School Merino  
A Possible Breast Cancer Treatment: Interferon Alpha Combined with Indole-3-Carbinol

Kelly Haller  
Woodlin School Woodrow  
The Effects of N-3 Fatty Acids on Inflammatory Mediators in Arthritic Patients
United States Department of Commerce
Adam Maerz 12th grade
Monarch High School Louisville
Avalanche Prediction Using High Frequency Radar
Laurie Cornell 12th grade
Nederland Middle/Senior High School Nederland
Pass the Salt: The Ecological Impacts of Magnesium Chloride De-Icer on Roadside Vegetables in the Nederland Region

United States Geological Survey
Elizabeth Garcia 6th grade
Sargent Elementary School Monte Vista
Rock-n-Roll
Jade Brooks 11th grade
Sierra Grande School Fort Garland/Blanca
Hydrophobicity: How Hydrophobic Soils Affect Runoff within a Watershed

Yale University Science & Engineering Association
Craig Wright 11th grade
Woodlin School Woodrow
Designing an Innovative Micropump

Zonta Club of Boulder County
Amelia Earhart Award
Natalia Wilkins 8th grade
Sarah Cornish 7th grade
$100
Ricks Center for Gifted Students Denver
Gravity vs. Velocity

Scholarships

Adams State College Foundation
Adams State College Scholarships
Christina Russell 11th grade
one-year full resident tuition & fees scholarship
Merino Jr/Sr High School Merino
Let's Read: A Comparative Study of Child Behavior and Daily Reading
Scott Headrick 10th grade
one-year full resident tuition & fees scholarship
Gilpin County School Black Hawk
Slow Down
Tyler Keck 9th grade
one-year full resident tuition & fees scholarship
Monte Vista High School Monte Vista
The Super Absorber: Using Sodium Polyacrylate to Absorb Metals in Water

Rachel Doyle 11th grade
one-year full resident tuition & fees scholarship
Monte Vista High School Monte Vista
The Effect of Yearly Precipitation on Water Quality in the Rio Grande River of Colorado
Chad Kembel 10th grade
one-year full resident tuition & fees scholarship
Brush High School Brush
Mathematics of a Rotating Cylinder
Jade Brooks 11th grade
one-year full resident tuition & fees scholarship
Sierra Grande School Fort Garland/Blanca
Hydrophobicity: How Hydrophobic Soils Affect Runoff within a Watershed
Phillip Torres 11th grade
one-year full resident tuition & fees scholarship
Cherry Creek High School Greenwood Village
The Best Wing Angle for Absorbing Heat from Light in Nymphalis antiopa
Tom Herter 10th grade
one-year full resident tuition & fees scholarship
Meeker High School Meeker
Hylemya sp.'s Effects on Fitness of Polemonium foliosissimum
David Bloemker 11th grade
one-year full resident tuition & fees scholarship
Brush High School Brush
Winging It - A Variable Camber Airfoil
Kayla Zimmerman 11th grade
one-year full resident tuition & fees scholarship
Hotchkiss High School Hotchkiss
The Effect of Three Types of Mulches on Soil Dwelling Bacteria in a Peach Orchard in Western Colorado

Colorado School of Mines
Colorado School of Mines Scholarships
Jeff Marlow 12th grade
four-year full resident tuition
Cherry Creek High School Greenwood Village
The Role of Oxygen in Cobalt Doped Titanium Oxide Thin Films
Jessica Caver 12th grade
four-year full resident tuition
Woodlin School Woodrow
Designing and Testing Solids to Remove Arsenic
Brian Camley 12th grade
four-year full resident tuition
Palmer High School Colorado Springs
The Telltale Heart of Darkness: Differentiating Between Authors - Beyond Naïve Bayesian Classification
Leota McDaniel 12th grade
four-year full resident tuition
Brush High School Brush
An Investigation into the Leidenfrost Phenomenon
Intel Foundation
Ryan Patterson Scholarship
Leota McDaniel 12th grade
$2,000 scholarship to the college of choice
Brush High School Brush
An Investigation into the Leidenfrost Phenomenon

Colorado Science and Engineering Fair
Teacher of the Year Award
Gary Wilkinson
certificate, $1,000 to use towards science fair research in the classroom
Monte Vista High School Monte Vista

Science Service
Discovery Communications, Inc.
Discovery Young Scientist Challenge
Chelsea Oden 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Monte Vista Middle School Monte Vista
Pursuing Patterns in Primes

Anita Lowe 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Crawford School Crawford
Flying Jewels

Katie Luff 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
North Middle School Colorado Springs
The Effects of Pulsed DC Electricity on Pond Water Bacteria

Ashley Wilkinson 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Timberview Middle School Colorado Springs
Got Water?

Matt Zubiel 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Creekside Middle School Monument
Visual Password System

Adreanne Brungardt 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Brush Middle School Brush
A Possible Mechanism for Explaining the Lake Nyos Tragedy

Cacia Steensen 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
West Jefferson Middle School Conifer
Forest Fire Fuels

Jake Harman 6th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Centennial Middle School Boulder
Predicting Viscosity Using Rotational Velocity

Meredith MacGregor 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Burbank Middle School Boulder
Dropping into Chaos

Justin Garouette 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Centauri Middle School La Jara
The Milky Way

Michaela Kaiser 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Sargent Junior High School Monte Vista
How Fast Is the Clock Ticking? Titer vs. Time

Yael Munishor 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Rocky Mountain Hebrew Academy Denver
Got Milk?

KJ Ward 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Genoa-Hugo School Hugo
Does Your Drink Have the Kick of Carbonation?

Jeffrey Hrncir 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
East Middle School Grand Junction
Reconstructing the Paleoclimate of the Green River Formation

Richelle Fritzler 7th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Merino Jr/Sr High School Merino
Got Milk? Got Hormones? A Study Done with Bovine Somatotropin and Grout

Zachary Zillmann 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Jefferson Academy Junior High School Broomfield
Wireless Moisture Detector for G-Tube Feedings
Mikaila Way 7th grade certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition West Jefferson Middle School Conifer
*An Apple a Day Keeps the Dentist Away?*

Clare O'Connor-Seville 6th grade certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Dolores Middle School Dolores
*Ips Beetles*

Timothy Schneider 7th grade certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Miller Middle School Durango
*Can You Hear Me?*

**Eastman Kodak Company**

Linsi Stoddard 10th grade certificate, Kodak camera and film (mailed later) Stodddard Home School Colorado Springs
*Flaming Firs*

**Herbert Hoover Presidential Library Association**

*The Herbert Hoover Young Engineer Award*

Robert Ussery 11th grade medallion, certificate Ussery Home School Fort Collins
*Sailplane Winch Launch Telemetry and Data-Logging*

**Intel Corporation**

*Intel Excellence in Environmental Health & Safety Award*

Jessica Caver 12th grade certificate, $200 (mailed later) Woodlin School Woodrow
*Designing and Testing Solids to Remove Arsenic*

**Intel Excellence in Computer Science Award**

Brian Canley 12th grade certificate, $200 (mailed later) Palmer High School Colorado Springs
*The Telltale Heart of Darkness: Differentiating Between Authors - Beyond Naïve Bayesian Classification*

**International Society for Optical Engineering**

Andy Ralston & Josh King 8th grade certificate, entry into drawing for cash award Bookcliff Middle School Grand Junction
*Bouncing Light*

**NACE International**

Jeff Marlow 12th grade certificate Cherry Creek High School Greenwood Village
*The Role of Oxygen in Cobalt Doped Titanium Oxide Thin Films*

**Scientific American**

Andrew Leifer, Raymund To & David Pothier 12th grade certificate, subscription to Scientific American Fairview High School Boulder
*Fractals, Power-Laws and the Weibull Distribution: Mathematically Modeling Crumpled Paper*

Brian Canley 12th grade certificate, subscription to Scientific American Palmer High School Colorado Springs
*The Telltale Heart of Darkness: Differentiating Between Authors - Beyond Naïve Bayesian Classification*

Graham Anderson 9th grade certificate, subscription to Scientific American Palmer High School Colorado Springs
*What a Scorching State! Is Urban Growth Worsening Drought in Colorado?*

Jessica Caver 12th grade certificate, subscription to Scientific American Woodlin School Woodrow
*Designing and Testing Solids to Remove Arsenic*

Tyler Keck 9th grade certificate, subscription to Scientific American Monte Vista High School Monte Vista
*The Super Absorber: Using Sodium Polyacrylate to Absorb Metals in Water*

Lisa Saccomano 11th grade certificate, subscription to Scientific American Cherry Creek High School Greenwood Village
*Abnormal Otic Invagination with Possible Associations to OAV Spectrum*

Robert Ussery 11th grade certificate, subscription to Scientific American Ussery Home School Fort Collins
*Sailplane Winch Launch Telemetry and Data-Logging*

Jennifer McDonough 9th grade certificate, subscription to Scientific American Palmer High School Colorado Springs
*Cruciferous Platychelmintes*

Kayla Zimmerman 11th grade certificate, subscription to Scientific American Hotchkiss High School Hotchkiss
*The Effect of Three Types of Mulches on Soil Dwelling Bacteria in a Peach Orchard in Western Colorado*

Lauren Smith 10th grade certificate, subscription to Scientific American Rampart High School Colorado Springs
*Xanthomonas campestris pv. Vesicatoria: A Study of the Relationship between Extra-Cellular Material and Heightened Host Response*

Leota McDaniel 12th grade certificate, subscription to Scientific American Brush High School Brush
*An Investigation into the Leidenfrost Phenomenon*
Society for In Vitro Biology

Diane Gumina 11th grade
Merino Jr/Sr High School Merino
*A Possible Breast Cancer Treatment: Interferon Alpha Combined with Indole-3-Carbinol*

United States Metric Association

Jessica Caver 12th grade
Woodlin School Woodrow
*Designing and Testing Solids to Remove Arsenic*

United States Public Health Service

Mackenzie Kitson 7th grade
Pagosa Springs Junior High School Pagosa Springs
*Sugar and Weight: How Do They Relate?*

Water Environment Federation

Jessica Sidman 11th grade
Palmer High School Colorado Springs
*The Filtering Effects of Anodonta grandis*