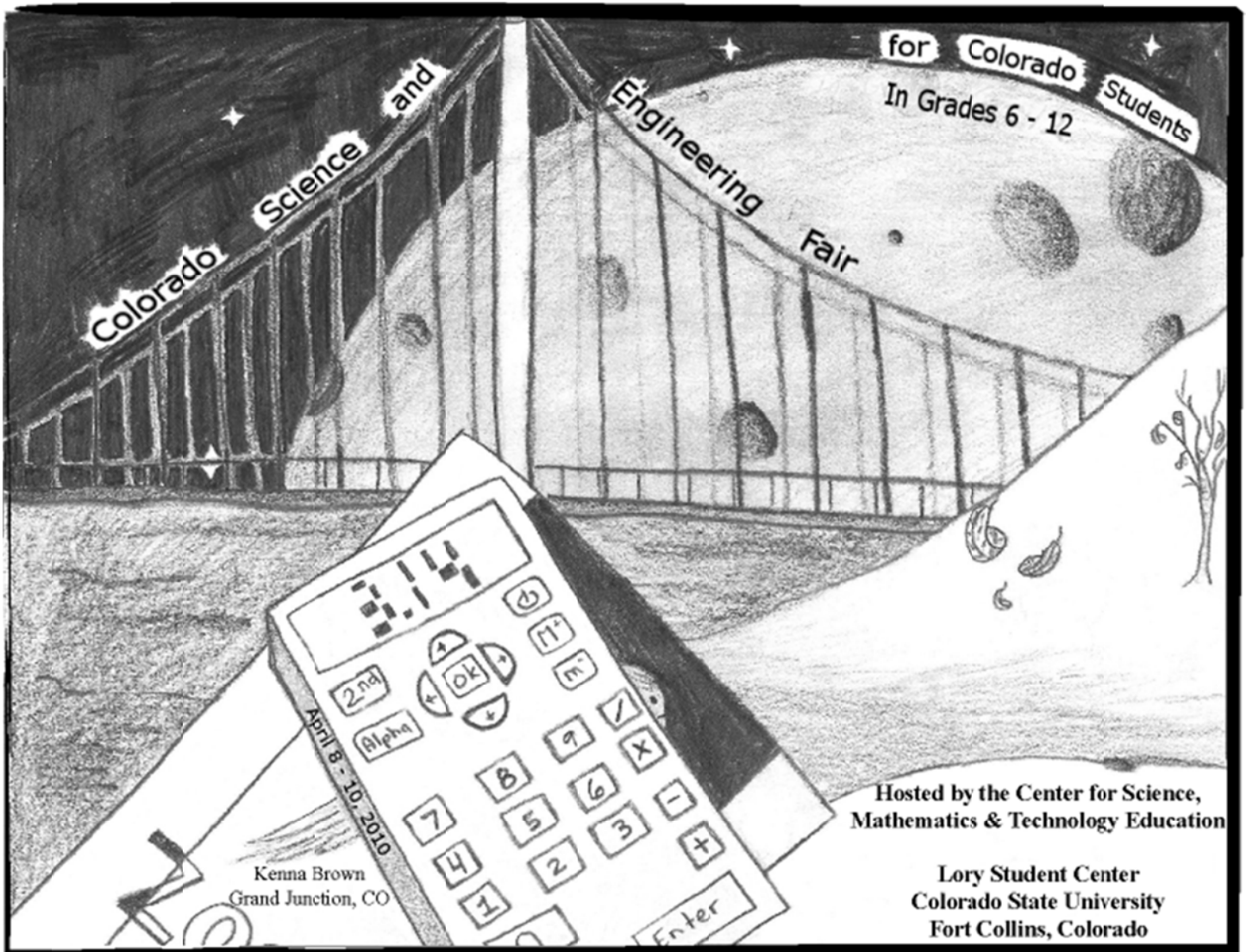


# Press Release



# 2010 Colorado Science and Engineering Fair

## Grand Awards Press Release

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### Junior Division Best Individual Project

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|  |                       |  |
|--|-----------------------|--|
| <b>First Place</b>   |                       |  |
| Reid Palser  | 7 <sup>th</sup> grade |  |
| <i>Submersible Vehicle Design and Modification</i>                             |                       |  |
| Otis Jr/Sr High School   | Otis                  |  |
| <b>Second Place</b>  |                       |  |
| Kaily Adair  | 7 <sup>th</sup> grade |  |
| <i>The Accuracy Behind the Accusation</i>                                      |                       |  |
| Preston Middle School  | Fort Collins          |  |
| <b>Third Place</b>   |                       |  |
| Bria Smith   | 8 <sup>th</sup> grade |  |
| <i>The Effects of Hydroxymethylfurfural on the Reproduction of Fruit Flies</i> |                       |  |
| Cherry Creek Challenge School  | Denver                |  |

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### Senior Division Best Individual Project

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|  |                        |  |
|--|------------------------|--|
| <b>First Place</b>   |                        |  |
| Nikki Buhrdorf   | 10 <sup>th</sup> grade |  |
| <i>Aspen in a State of SADness: A Statistical Analysis of the Decline of Populus tremuloides</i> |                        |  |
| Hotchkiss High School  | Hotchkiss              |  |
| <b>Second Place</b>  |                        |  |
| Ben Armstrong  | 12 <sup>th</sup> grade |  |
| <i>The Uptake of Endocrine Disrupting Chemicals</i>  |                        |  |
| Monte Vista High School  | Monte Vista            |  |
| <b>Third Place</b>   |                        |  |
| Radhika Rawat  | 12 <sup>th</sup> grade |  |
| <i>Pre-Initiation Complexes of SREBP-1a and -2</i>   |                        |  |
| Boulder High School  | Boulder                |  |

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### Junior Division Best Team Project

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|   |                       |  |
|---|-----------------------|--|
| <b>First Place</b>  |                       |  |
| Jessie McLaughlin & Erin McLaughlin                                     | 8 <sup>th</sup> grade |  |
| <i>Irrigation Water Salinity and Its Effect on Early Plant Growth</i>   |                       |  |
| Sacred Heart of Jesus School  | Boulder               |  |
| <b>Second Place</b>   |                       |  |
| Lawrence Zhang & Isabelle Nathanson                                     | 8 <sup>th</sup> grade |  |
| <i>Thinking in Color: The Effect of Brain Dominance on How We Learn</i> |                       |  |
| Summit Middle School  | Boulder               |  |
| <b>Third Place</b>  |                       |  |
| Levi Schofield & Luke Dekker  | 8 <sup>th</sup> grade |  |
| <i>DWD (Driving While Distracted)</i>                                   |                       |  |
| Evangelical Christian Academy   | Colorado Springs      |  |

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### Senior Division Best Team Project

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|   |                        |  |
|---|------------------------|--|
| <b>First Place</b>  |                        |  |
| Tonya Pavlenko & Laura Gudvangen  | 11 <sup>th</sup> grade |  |
| <i>Internal Combat with Melanoma: Triggering an Immune Response through the Up-Regulation of FAS Using Toll Ligand Combination Treatments</i> |                        |  |
| Palmer High School  | Colorado Springs       |  |
| <b>Second Place</b>   |                        |  |
| Lorne Muir II & Nathan Weeks  | 10 <sup>th</sup> grade |  |
| <i>Analyzing the Separate Toxicity of Engineered Nanoparticles on L1210 Cells</i>   |                        |  |
| The Classical Academy   | Colorado Springs       |  |
| <b>Third Place</b>  |                        |  |
| Alexander Port & Devon Stork  | 11 <sup>th</sup> grade |  |
| <i>The Effect of Intramolecular Bonding on the Structure of Odor Binding Protein-4</i>  |                        |  |
| George Washington High School   | Denver                 |  |

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### Junior Division Animal Sciences

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|  |                       |  |
|--|-----------------------|--|
| <b>First Place</b>   |                       |  |
| Bria Smith   | 8 <sup>th</sup> grade |  |
| <i>The Effects of Hydroxymethylfurfural on the Reproduction of Fruit Flies</i>                               |                       |  |
| Cherry Creek Challenge School  | Denver                |  |
| <b>Second Place</b>  |                       |  |
| Zoe Wohlgenant   | 8 <sup>th</sup> grade |  |
| <i>The Efficacy of Sugar Dusting in Controlling Populations of Honey Bee Mites</i>                           |                       |  |
| Hill Campus of the Arts and Sciences   | Denver                |  |
| <b>Third Place</b>   |                       |  |
| Claire Francis   | 7 <sup>th</sup> grade |  |
| <i>Division and Multiplication: How Planarians Regenerate</i>  |                       |  |
| Stanley British Primary School   | Denver                |  |
| <b>Honorable Mention</b>   |                       |  |
| Grant Wray   | 8 <sup>th</sup> grade |  |
| <i>Does the Environment in a Refrigerator Affect the Water Content of Free-Range and Caged Chicken Eggs?</i> |                       |  |
| Blevins Middle School  | Fort Collins          |  |

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### Senior Division Animal Sciences

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|                                      |                        |  |
|--------------------------------------|------------------------|--|
| <b>First Place</b>                   |                        |  |
| Emily Schnoor                        | 12 <sup>th</sup> grade |  |
| <i>The Answer Is in the Solution</i> |                        |  |
| Sargent Jr/Sr High School            | Monte Vista            |  |

**Second Place**  
Nathan Frantz 10<sup>th</sup> grade  
*Does Size Matter?*  
Fleming High School Fleming

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

**Honorable Mention**  
Ben Smith 10<sup>th</sup> grade  
*Biological Control of an Unseen Killer: Dendroctonus rufipennis, The Spruce Beetle*  
Hotchkiss High School Hotchkiss

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**Junior Division  
Behavioral & Social Sciences**

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**First Place**  
Kaily Adair 7<sup>th</sup> grade  
*The Accuracy Behind the Accusation*  
Preston Middle School Fort Collins

**Second Place**  
Aleesa Muir 6<sup>th</sup> grade  
*Developing an Awareness of Pet Stewardship*  
The Classical Academy Colorado Springs

**Third Place**  
Julia Siegel 8<sup>th</sup> grade  
*The Confusion of the Rainbow Part 2*  
Herzl Rocky Mountain Hebrew Academy Denver

**Category Team Award**  
Levi Schofield & Luke Dekker 8<sup>th</sup> grade  
*DWD (Driving While Distracted)*  
Evangelical Christian Academy Colorado Springs

**Category Team Award**  
Lawrence Zhang & Isabelle Nathanson 8<sup>th</sup> grade  
*Thinking in Color: The Effect of Brain Dominance on How We Learn*  
Summit Middle School Boulder

**Honorable Mention**  
Chad Haunschild 6<sup>th</sup> grade  
*Exercises: Can the Eyes Learn?*  
Mountain View Core Knowledge School Canon City

**Honorable Mention**  
Marika Schubert 8<sup>th</sup> grade  
*The Power of Suggestion*  
Russell Middle School Colorado Springs

**Honorable Mention**  
Sophie Foster 6<sup>th</sup> grade  
*Color Confusions*  
North Middle School Colorado Springs

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**Senior Division  
Behavioral & Social Sciences**

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

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

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

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

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**Junior Division  
Chemistry**

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**First Place**  
CJ VanDeMark 7<sup>th</sup> grade  
*Medieval Paint Mediums*  
Union Colony Middle School Greeley

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

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

**Honorable Mention**  
Robin Austin 8<sup>th</sup> grade  
*Yeast: CO<sub>2</sub> Output Using Natural and Artificial Sweeteners*  
Columbine Christian School Durango

**Honorable Mention**  
Lauren Wilson 7<sup>th</sup> grade  
*Blaze vs. Baking Soda*  
The Classical Academy Colorado Springs

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**Senior Division  
Chemistry**

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**First Place**  
Jaehee Park 11<sup>th</sup> grade  
*Using Steel Wool to Remove Arsenic from Drinking Water*  
Fairview High School Boulder

**Second Place**

Aidan Seawalt 12<sup>th</sup> grade  
*Concentration of Nickel Hydroxide in a NiMH Battery*  
 Cherry Creek High School Greenwood Village

**Third Place**

Gerri Roberts 9<sup>th</sup> grade  
*Basic Studies of Green Diesel from Biostock*  
 Poudre High School Fort Collins

**Category Team Award**

Alexander Port & Devon Stork 11<sup>th</sup> grade  
*The Effect of Intramolecular Bonding on the Structure of Odor Binding Protein-4*  
 George Washington High School Denver

**Honorable Mention**

Travis Zuniga 11<sup>th</sup> grade  
*Brand Name vs. Generic: A Chemical Analysis of Analgesics by TLC*  
 South High School Pueblo

**Honorable Mention**

Katelyn Yowell 11<sup>th</sup> grade  
*Chlorophyll in Your Lip Balm?*  
 Genoa-Hugo School Hugo

**Junior Division  
 Earth & Space Sciences**

**First Place**

Sophia Schneider 8<sup>th</sup> grade  
*Reducing Global Warming? The Effect of Microorganisms on Geologic Sequestration*  
 North Middle School Colorado Springs

**Second Place**

David Ritzwoller 8<sup>th</sup> grade  
*Do Earthquakes in Colorado Follow the Gutenberg-Richter Law?*  
 Summit Middle School Boulder

**Third Place**

Taylor Volesky 8<sup>th</sup> grade  
*The Physical Weathering of Rocks: The Freeze Thaw Cycle*  
 Cherry Creek Challenge School Denver

**Honorable Mention**

Troy Fantini 8<sup>th</sup> grade  
*Boiling in the Stratosphere*  
 Aspen Middle School Aspen

**Senior Division  
 Earth & Space Sciences**

**First Place**

Joanna Phillips 10<sup>th</sup> grade  
*Infested Forests and Evapotranspiration II: Developing a Watershed Model*  
 Monte Vista High School Monte Vista

**Second Place**

Tara Sowriraiian 10<sup>th</sup> grade  
*Hadley Circulation in the Venusian Atmosphere*  
 Cherry Creek High School Greenwood Village

**Third Place**

Tanya Petach 11<sup>th</sup> grade  
*Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors*  
 Fairview High School Boulder

**Junior Division  
 Energy & Transportation**

**First Place**

Nathanael Ramirez 8<sup>th</sup> grade  
*The "Light" of Our Lives*  
 Sargent Jr/Sr High School Monte Vista

**Second Place**

Ryan Famiglietti 7<sup>th</sup> grade  
*Garbage Is Good: Gasification as Green Energy*  
 Cherry Creek Challenge School Denver

**Third Place**

Cecelia Brennan 8<sup>th</sup> grade  
*Revolutionizing Household Appliances*  
 Holy Family Catholic School Grand Junction

**Honorable Mention**

Ryan Mitchell & Drake Hammond 8<sup>th</sup> grade  
*How Much Are You Wasting?*  
 Cherry Creek Challenge School Denver

**Senior Division  
 Energy & Transportation**

**First Place**

Sara Volz 9<sup>th</sup> grade  
*Enhancing Algae Biofuels: The Effects of Nitrogen Limitation and CO<sub>2</sub> Infusion on the Oil Yields of *Nannochloropsis oculata**  
 Cheyenne Mountain High School Colorado Springs

**Second Place**

Christy Farnsworth 12<sup>th</sup> grade  
*A New Look of Alternative Energy*  
 Paonia High School Paonia

**Third Place**

J. Raleigh Burt 12<sup>th</sup> grade  
*Optimizing Energy Extraction and Water Conservation of Geothermal Heating Systems, Part II*  
 Sargent Jr/Sr High School Monte Vista

**Honorable Mention**

Scott Martin 12<sup>th</sup> grade  
*Storing and Harnessing Energy through Pumped Micro-Hydroelectric Systems*  
 Cherry Creek High School Greenwood Village

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**Junior Division  
Engineering**

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**First Place**

Reid Palser 7<sup>th</sup> grade  
*Submersible Vehicle Design and Modification*  
Otis Jr/Sr High School Otis

**Second Place**

Dylan Schlager 8<sup>th</sup> grade  
*Internet Through a Can???*  
Summit Middle School Boulder

**Third Place**

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

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**Senior Division  
Engineering**

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**First Place**

Henry Shennan 12<sup>th</sup> grade  
*A 2.3m Dual Band Radio Telescope for Power Mapping and Line Spectra Observations*  
Fairview High School Boulder

**Second Place**

Jesse Ellison 12<sup>th</sup> grade  
*Next Generation Propulsion: The ALFA Mark VI*  
Bayfield High School Bayfield

**Third Place**

Megan Perez 10<sup>th</sup> grade  
*The Hovercraft Project*  
Del Norte High School Del Norte

**Honorable Mention**

Roberto Fortes & Taylor Labato 12<sup>th</sup> grade  
*Trash Landing: Building a Plane from Recycled Materials*  
Center High School Center

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**Junior Division  
Environmental Sciences**

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**First Place**

Rachel Rossi 8<sup>th</sup> grade  
*Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water*  
Miller Middle School Durango

**Second Place**

Devon Enke 8<sup>th</sup> grade  
*Mycorrhizal/Symbiosis: Unlocking the Potential of Soil*  
La Veta Jr/Sr High School La Veta

**Third Place**

Grant Yowell 8<sup>th</sup> grade  
*Go Green with BioPlastics*  
Genoa-Hugo School Hugo

**Category Team Award**

Jessie McLaughlin & Erin McLaughlin 8<sup>th</sup> grade  
*Irrigation Water Salinity and Its Effect on Early Plant Growth*  
Sacred Heart of Jesus School Boulder

**Honorable Mention**

Torin McDonald 8<sup>th</sup> grade  
*The Impact of a Coal Mine on Water Quality*  
Summit Middle School Boulder

**Honorable Mention**

Brett Ferraro 8<sup>th</sup> grade  
*Troubled Waters?*  
Vail Mountain School Vail

**Honorable Mention**

Dante Carter 8<sup>th</sup> grade  
*Do Natural Remedies Work for Stream Pollution?*  
North Middle School Colorado Springs

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**Senior Division  
Environmental Sciences**

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**First Place**

Ben Armstrong 12<sup>th</sup> grade  
*The Uptake of Endocrine Disrupting Chemicals*  
Monte Vista High School Monte Vista

**Second Place**

Shannon McAvoy 12<sup>th</sup> grade  
*Water, Water Everywhere*  
Windsor High School Windsor

**Third Place**

Mark Seres 12<sup>th</sup> grade  
*Optimization of the Amount of Iron for the Enhancement of Phytoplankton Blooms*  
Cherry Creek High School Greenwood Village

**Honorable Mention**

Brisha Wakasugi 10<sup>th</sup> grade  
*Kerber Creek Restoration: Using Phytoremediation to Rebuild a Watershed*  
Sierra Grande Jr/Sr High School Blanca

**Honorable Mention**

Jeffrey Hibbert 11<sup>th</sup> grade  
*The Implications of Using Carbon Nanotubes to Promote Algal Growth*  
Lone Star School Otis

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**Junior Division  
Mathematics & Computer Sciences**

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**First Place**

Brandon Jacobs 8<sup>th</sup> grade  
*Hard Drive Sector Size . . . Does It Impact Performance?*  
Summit Middle School Boulder

**Second Place**

Kyle Kihn 8<sup>th</sup> grade  
*Stopping the Spread of H1N1: A Computer Simulation*  
 Nevin Platt Middle School Boulder

**Third Place**

Dakota Harris 7<sup>th</sup> grade  
*Magical Mathematical Juice*  
 Wiggins Middle School Wiggins

**Senior Division****Mathematics & Computer Sciences****First Place**

John Parish IV 11<sup>th</sup> grade  
*Closer to Where It Wasn't: Estimation and Tracking Using Adaptive Filtering*  
 Home School Colorado Springs

**Second Place**

Robin Betz 12<sup>th</sup> grade  
*Automated Image Reassembly with a Hybrid Genetic Algorithm*  
 Fairview High School Boulder

**Third Place**

Garrett Glissmann 10<sup>th</sup> grade  
*Leveraging the Twitter Platform for Mass Communication and Collection of Opinions*  
 Boulder High School Boulder

**Honorable Mention**

Jessica Constant 9<sup>th</sup> grade  
*Computer Modeling III: An Eulerian Simulation Model of Particulate Dispersion in the Atmosphere*  
 Poudre High School Fort Collins

**Honorable Mention**

Ashlynn Miller 11<sup>th</sup> grade  
*Determination of Fractal Dimension of Blood Spatter Patterns*  
 Lone Star School Otis

**Junior Division****Medicine & Health****First Place**

Abigail Negley 8<sup>th</sup> grade  
*The Effect of Pain Killers on the Healing Process of Planaria*  
 North Middle School Colorado Springs

**Second Place**

Sydney Matteson 7<sup>th</sup> grade  
*Planaria Grow: Fast or Slow? The Effects of Healing Remedies on the Regeneration of Planaria*  
 North Middle School Colorado Springs

**Third Place**

Kaitlyn Nagel 8<sup>th</sup> grade  
*Running on Fumes*  
 Blevins Middle School Fort Collins

**Honorable Mention**

Megan Percy 7<sup>th</sup> grade  
*The Best Thing Since Fresh Fruit*  
 The Classical Academy Colorado Springs

**Honorable Mention**

Phoebe Stoye 8<sup>th</sup> grade  
*The Effect of Therabands on Ankle Strength*  
 East Middle School Grand Junction

**Senior Division****Medicine & Health****First Place**

Radhika Rawat 12<sup>th</sup> grade  
*Pre-Initiation Complexes of SREBP-1a and -2*  
 Boulder High School Boulder

**Second Place**

Connie Liu 11<sup>th</sup> grade  
*Therapeutic Use of microRNA-200c to Treat HEY Ovarian Cancer*  
 Cherry Creek High School Greenwood Village

**Third Place**

Rahul Shankar 12<sup>th</sup> grade  
*Proteomic Method Development for the Analysis of Tissue Transglutaminases Role in Cancer Progression*  
 Rampart High School Colorado Springs

**Category Team Award**

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

**Category Team Award**

Lorne Muir II & Nathan Weeks 10<sup>th</sup> grade  
*Analyzing the Separate Toxicity of Engineered Nanoparticles on L1210 Cells*  
 The Classical Academy Colorado Springs

**Honorable Mention**

Nikki Schmidt 11<sup>th</sup> grade  
*Mixing Prescriptions? The Inactivation of Tamoxifen by SSRIs on Lumbriculus variegatus*  
 Merino Jr/Sr High School Merino

**Junior Division****Microbiology****First Place**

Chelsea Smith 7<sup>th</sup> grade  
*Ewww! What's on My Shoe?*  
 The Classical Academy Colorado Springs

**Second Place**

Marcus Witzel 7<sup>th</sup> grade  
*Monumental Mold*  
 The Classical Academy Colorado Springs

**Third Place**

Anne Mummary 6<sup>th</sup> grade  
*Don't Eat the Yellow Snow*  
 Miller Middle School Durango

**Honorable Mention**

Connor Fiscus 7<sup>th</sup> grade  
*MMMM . . . I'm Lovin' It! Unless It's on the Floor*  
 Merino Jr/Sr High School Merino

**Honorable Mention**

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

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**Senior Division  
Microbiology**

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**First Place**

Kelli Lynch 10<sup>th</sup> grade  
*Irradiation Extermination: A Portable System to Eliminate  
 Water-Borne Microorganisms*  
 Rocky Mountain High School Fort Collins

**Second Place**

Katherine Schilling 12<sup>th</sup> grade  
*Strain Engineering Furfural Resistance in E. coli for  
 Biofuel Applications*  
 Fairview High School Boulder

**Third Place**

Wyatt Palser 9<sup>th</sup> grade  
*An Examination of Silver Nanoparticles: Antimicrobial  
 Effects and Mitigation*  
 Otis Jr/Sr High School Otis

**Honorable Mention**

Elaine Wolfe 12<sup>th</sup> grade  
*The Effects of Common Oral Hygiene Routines on the Oral  
 Microbiota*  
 Fairview High School Boulder

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**Junior Division  
Physics**

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**First Place**

Jessica O'Brien 8<sup>th</sup> grade  
*Picture Perfect*  
 Peak to Peak Charter School Lafayette

**Second Place**

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

**Third Place**

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

**Honorable Mention**

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

**Honorable Mention**

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

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**Senior  
Division Physics**

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**First Place**

Ethan Hahn 12<sup>th</sup> grade  
*Nuclear Fusion by Inertial Electrostatic Confinement:  
 Increasing Efficiency with Thermionic Emission*  
 The Classical Academy Colorado Springs

**Second Place**

Amy Lyne 11<sup>th</sup> grade  
*Investigation of Wave Phenomenon*  
 Brush High School Brush

**Third Place**

Nathaniel Thompson 12<sup>th</sup> grade  
*The Dynamics of Induced Hovering Flight in an  
 Oscillating Airflow at Various Frequencies*  
 Brush High School Brush

**Honorable Mention**

Tanner Dunivan 9<sup>th</sup> grade  
*Stronger than a Speeding Bullet*  
 Walsh Jr/Sr High School Walsh

**Honorable Mention**

Samantha Ensz 11<sup>th</sup> grade  
*Photon Emission Based on Color*  
 Hi-Plains Jr/Sr High School Seibert

**Honorable Mention**

Tucker Leavitt & Samuel Kater 9<sup>th</sup> grade  
*Electrostatic Power Amplification*  
 Animas High School Durango

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**Junior Division  
Plant Sciences**

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**First Place**

Haley Matteson 8<sup>th</sup> grade  
*Sick Plants, Well Plants: Using Plants as Biological  
 Indicators of Pharmaceutical Pollution*  
 North Middle School Colorado Springs

**Second Place**

Johanne Albrightsen 8<sup>th</sup> grade  
*Allelopathic Effects of Picea pungens*  
 Summit Middle School Boulder

**Third Place**

Zachary Nastri 7<sup>th</sup> grade  
*What Colors of Light Make a Plant Grow?*  
Most Precious Blood Catholic School Denver

**Honorable Mention**

Tucker Teague 6<sup>th</sup> grade  
*Effects of Lagoon Water on Bean Plants*  
Wiggins Jr/Sr High School Wiggins

**Honorable Mention**

Elizabeth Hoffner 8<sup>th</sup> grade  
*Healthy and Nutritious Spud*  
Home Schooled Center

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**Senior Division  
Plant Sciences**

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**First Place**

Nikki Buhrdorf 10<sup>th</sup> grade  
*Aspen in a State of SADness: A Statistical Analysis of the  
Decline of Populus tremuloides*  
Hotchkiss High School Hotchkiss

**Second Place**

Wylie Keller 10<sup>th</sup> grade  
*Wool as a Potting Media*  
Monte Vista High School Monte Vista

**Third Place**

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

**Honorable Mention**

Deshae Gehr & Lauren Bacon 12<sup>th</sup> grade  
*The Effects of Estrogen on RNAi Expression of  
Arabidopsis Wild-Type and Mutant Strains*  
Monarch High School Louisville



# 2010 Colorado Science and Engineering Fair

## Special Awards Press Release

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### Colorado Science and Engineering Fair

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#### *Ralph Desch Memorial Technical Writing Award*

Harraz MohdReza 11<sup>th</sup> grade  
 \$100, certificate  
 Union Colony Preparatory School Greeley  
*Immunocytochemical Characterization of Mouse Brain Explants  
 in an In Vitro Model of Schizophrenia*

#### *Student Choice Awards*

Ty Gardner & Blaine Cahill 7<sup>th</sup> grade  
 \$100, certificate  
 West Middle School Grand Junction  
*Shaping the Bird Brain*

Erik Schnaderbeck 11th grade  
 \$100, certificate  
 Sargent Jr/Sr High School Monte Vista  
*Identifying Individual Rainbow Trout Utilizing Distinct Spot  
 Orientation*

#### *Poster Art Contest*

Branislava Blagojevic  
 \$100, certificate  
 Canon City High School Canon City

#### *Pioneers of Science - Edwin Powell Hubble*

Sidney Stegman 6<sup>th</sup> grade  
 \$30, certificate  
 Lamar Elementary School Lamar  
*Mystery Spin*

#### *Pioneers of Science - Georges LCF Cuvier*

Anabel Henriquez 7<sup>th</sup> grade  
 \$30, certificate  
 Cesar Chavez Academy Pueblo  
*At What Temperature Do Dogs Prefer Their Food?*

#### *Pioneers of Science - Grace Hopper*

Dakota Harris 7<sup>th</sup> grade  
 \$30, certificate  
 Wiggins Jr/Sr High School Wiggins  
*Magical Mathematical Juice*

#### *Pioneers of Science - Greene Vardiman Black*

Ryan Rohn 6<sup>th</sup> grade  
 \$30, certificate  
 Wiggins Jr/Sr High School Wiggins  
*Get Wet and Wrinkly*

#### *Pioneers of Science - James Prescott Joule*

Kayla Snyder 6<sup>th</sup> grade  
 \$30, certificate  
 Falcon Middle School Falcon  
*Ice Is Nice*

#### *Pioneers of Science - John Edward Salk*

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

#### *Pioneers of Science - Louis Pasteur*

Anne Mummery 6<sup>th</sup> grade  
 \$30, certificate  
 Miller Middle School Durango  
*Don't Eat the Yellow Snow*

#### *Pioneers of Science - Luther Burbank*

Rex Stowers 7<sup>th</sup> grade  
 \$30, certificate  
 St. Columba Catholic School Durango  
*Phytoremediation: Can Plants Clean Soil?*

#### *Pioneers of Science - Margaret Mead*

Chad Haunschuld 6<sup>th</sup> grade  
 \$30, certificate  
 Mountain View Core Knowledge School Canon City  
*Exercises: Can the Eyes Learn?*

#### *Pioneers of Science - Marie Curie*

Kaylie Thompson 7<sup>th</sup> grade  
 \$30, certificate  
 Sargent Jr/Sr High School Monte Vista  
*What's in Your Water?*

#### *Pioneers of Science - Max Planck*

Kohler McInnis 7<sup>th</sup> grade  
 \$30, certificate  
 St. Columba Catholic School Durango  
*Maglev Trains: Are They Cool or Are They Hot? A Study of the  
 Effect of Temperature on Maglev Trains*

#### *Pioneers of Science - Nicola Tesla*

Madison Thompson 6<sup>th</sup> grade  
 \$30, certificate  
 Otis Jr/Sr High School Otis  
*Can You STAND This???*

#### *Pioneers of Science - Rachel Louise Carson*

Nathan Witt 7<sup>th</sup> grade  
 \$30, certificate  
 Arriba-Flagler School Flagler  
*Riprap Gives Erosion a Nap*

#### *Pioneers of Science - Rosalie Edge*

Bryce Ward 6<sup>th</sup> grade  
 \$30, certificate  
 Miller Middle School Durango  
*O Pollution, Pollution! Wherefore Art Thou Pollution?*

### *Pioneers of Science - Sigmund Freud*

Schyler Adkins & Gabrielle Potter 8<sup>th</sup> grade  
\$30, certificate  
Goodnight School Pueblo  
*T.G.I.F*

### *Pioneers of Science – Sir William Grove*

Morgan Felix 7<sup>th</sup> grade  
\$30, certificate  
Olathe Middle School Olathe  
*Magnobile*

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## Military

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### **United States Air Force**

#### *Air Force ROTC Award*

Forrest Pieper & Robert Decker 12<sup>th</sup> grade  
certificate, connections computer accessories kit, Slazenger sport  
deluxe sling, magnetic floating pen/holder  
Nederland Middle/Senior High School Nederland  
*Internal Stretcher Storage of Medical Oxygen for On-Site  
Emergency Treatment*

Jesse Ellison 12<sup>th</sup> grade  
certificate, connections computer accessories kit, Slazenger sport  
deluxe sling, magnetic floating pen/holder  
Bayfield High School Bayfield  
*Next Generation Propulsion: The ALFA Mark VI*

Christy Farnsworth 12<sup>th</sup> grade  
certificate, connections computer accessories kit, Slazenger sport  
deluxe sling, magnetic floating pen/holder  
Paonia Jr/Sr High School Paonia  
*A New Look of Alternative Energy*

Robin Betz 12<sup>th</sup> grade  
certificate, connections computer accessories kit, Slazenger sport  
deluxe sling, magnetic floating pen/holder  
Fairview High School Boulder  
*Automated Image Reassembly with a Hybrid Genetic Algorithm*

### **United States Army**

#### *Department of the Army Award*

Connie Liu 11<sup>th</sup> grade  
certificate, \$50 (to be mailed)  
Cherry Creek High School Greenwood Village  
*Therapeutic Use of microRNA-200c to Treat HEY Ovarian  
Cancer*

Tonya Pavlenko & Laura Gudvangen 11<sup>th</sup> grade  
certificate, \$50 (to be mailed)  
Palmer High School Colorado Springs  
*Internal Combat with Melanoma: Triggering an Immune  
Response through the Up-Regulation of FAS Using Toll Ligand  
Combination Treatments*

Henry Shennan 12<sup>th</sup> grade  
certificate, \$50 (to be mailed)  
Fairview High School Boulder  
*A 2.3m Dual Band Radio Telescope for Power Mapping and  
Line Spectra Observations*

Jeffrey Hibbert 11<sup>th</sup> grade  
certificate, \$50 (to be mailed)  
Lone Star School Otis  
*The Implications of Using Carbon Nanotubes to Promote Algal  
Growth*

Sara Volz 9<sup>th</sup> grade  
certificate, \$100 (to be mailed), silver medallion  
Cheyenne Mountain High School Colorado Springs  
*Enhancing Algae Biofuels: The Effects of Nitrogen Limitation  
and CO<sub>2</sub> Infusion on the Oil Yields of Nannochlorosis oculata*

### **United States Navy & United States Marine Corps**

#### *Office of Naval Research Awards*

Chad Haunschuld 6<sup>th</sup> grade  
certificate  
Mountain View Core Knowledge School Canon City  
*Exercises: Can the Eyes Learn?*

Dylan Schlager 8<sup>th</sup> grade  
certificate  
Summit Middle School Boulder  
*Internet Through a Can???*

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

Hannah McIntyre 8<sup>th</sup> grade  
certificate  
North Middle School Colorado Springs  
*Natural vs. Antibiotics: Which Is More Effective on the Killing of  
E. coli?*

Connie Liu 11<sup>th</sup> grade  
certificate, \$75 (to be mailed later)  
Cherry Creek High School Greenwood Village  
*Therapeutic Use of microRNA-200c to Treat HEY Ovarian  
Cancer*

Emily Schnoor 12<sup>th</sup> grade  
certificate, \$75 (to be mailed later)  
Sargent Jr/Sr High School Monte Vista  
*The Answer Is in the Solution*

Christy Farnsworth 12<sup>th</sup> grade  
certificate, \$75 (to be mailed later)  
Paonia Jr/Sr High School Paonia  
*A New Look of Alternative Energy*

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## Organizational

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

Rachel Rossi 8<sup>th</sup> grade  
\$50

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

Ryan Parrish 7<sup>th</sup> grade  
\$50  
North Middle School Colorado Springs  
*Does Size Matter: The Effect of Building Size on the Winds*  
*Ability to Remove Pollution*

Bryce Ward 6<sup>th</sup> grade  
\$50  
Miller Middle School Durango  
*O Pollution, Pollution! Wherefore Art Thou Pollution?*

Brisha Wakasugi 9<sup>th</sup> grade  
\$50  
Sierra Grande Jr/Sr High School Blanca  
*Kerber Creek Restoration: Using Phytoremediation to Rebuild a Watershed*

Shannon McAvoy 12<sup>th</sup> grade  
\$50  
Windsor High School Windsor  
*Water, Water Everywhere*

### **American Academy of Environmental Engineers**

Brisha Wakasugi 9<sup>th</sup> grade  
certificate, membership in AAEE  
Sierra Grande Jr/Sr High School Blanca  
*Kerber Creek Restoration: Using Phytoremediation to Rebuild a Watershed*

### **American Association of University Women**

Haley Matteson 8<sup>th</sup> grade  
\$100  
North Middle School Colorado Springs  
*Sick Plants, Well Plants: Using Plants as Biological Indicators of Pharmaceutical Pollution*

### **American Chemical Society Colorado Local Section**

Leonard Brasuel 6<sup>th</sup> grade  
\$100, certificate  
North Middle School Colorado Springs  
*What's the Spiciest Part of a Chile?*

Jaehee Park 11<sup>th</sup> grade  
\$100, certificate  
Fairview High School Boulder  
*Using Steel Wool to Remove Arsenic from Drinking Water*

### **American Institute of Chemical Engineers Rocky Mountain Section**

Leonard Brasuel 6<sup>th</sup> grade  
\$75  
North Middle School Colorado Springs  
*What's the Spiciest Part of a Chile?*

Tyler Morley 8<sup>th</sup> grade  
\$100  
Summit Middle School Boulder  
*Frozen Resistance*

David Wise 11<sup>th</sup> grade  
\$75  
The Classical Academy Colorado Springs  
*Mathematical Analysis of Chemical Equilibria*

Jaehee Park 11<sup>th</sup> grade  
\$100  
Fairview High School Boulder  
*Using Steel Wool to Remove Arsenic from Drinking Water*

### **American Meteorological Society Denver/Boulder Chapter**

Ryan Parrish 7<sup>th</sup> grade  
certificate, \$50  
North Middle School Colorado Springs  
*Does Size Matter: The Effect of Building Size on the Winds*  
*Ability to Remove Pollution*

Johanna Phillips 10<sup>th</sup> grade  
certificate, \$50  
Monte Vista High School Monte Vista  
*Infested Forests and Evapotranspiration II: Developing a Watershed Model*

### **American Statistical Association Colorado/Wyoming Chapter David Young Memorial Awards**

Schuyler Adkins & Gabrielle Potter 8<sup>th</sup> grade  
\$150, student membership in the American Statistical Association, acknowledgement at the chapter spring meeting and on chapter web site  
Goodnight School Pueblo  
*T.G.I.F*

Christopher Krause 12<sup>th</sup> grade  
\$150, student membership in the American Statistical Association, acknowledgement at the chapter spring meeting and on chapter web site  
The Classical Academy Colorado Springs  
*Microclimates Under the Microscope*

### **American Vacuum Society Rocky Mountain Chapter**

Rachel Rossi 8<sup>th</sup> grade  
\$50, \$50 for adult sponsor  
Miller Middle School Durango  
*Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water*

Emma Frantz 7<sup>th</sup> grade  
\$100, \$100 for adult sponsor  
North Middle School Colorado Springs  
*The Effects of Magnetic Levitation on Friction Force*

Ethan Hahn 12<sup>th</sup> grade  
\$50, \$50 for adult sponsor  
The Classical Academy Colorado Springs  
*Nuclear Fusion by Inertial Electrostatic Confinement: Increasing Efficiency with Thermionic Emission*

Jesse Ellison 12<sup>th</sup> grade  
\$100, \$100 for adult sponsor  
Bayfield High School Bayfield  
*Next Generation Propulsion: The ALFA Mark VI*

**American Water Works Association  
Rocky Mountain Section &  
Rocky Mountain Water Environment Association**

Rachel Rossi 8<sup>th</sup> grade  
\$200  
Miller Middle School Durango  
*Catch That Copper: The Effects of Fungi Cultivation on Copper Levels in Fresh Water*

Jesse McLaughlin & Erin McLaughlin 8<sup>th</sup> grade  
\$400  
Sacred Heart of Jesus School Boulder  
*Irrigation Water Salinity and Its Effect on Early Plant Growth*

Kelli Lynch 10<sup>th</sup> grade  
\$200  
Rocky Mountain High School Fort Collins  
*Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms*

Ben Armstrong 12<sup>th</sup> grade  
\$400  
Monte Vista High School Monte Vista  
*The Uptake of Endocrine Disrupting Chemicals*

**ASM International**

Tyler Lopez & Elizabeth Fink 8<sup>th</sup> grade  
\$100  
Goodnight School Pueblo  
*Help! Save My Car!*

Brenna Ray 8<sup>th</sup> grade  
Carlos Nunez 7<sup>th</sup> grade  
\$150  
La Veta Jr/Sr High School La Veta  
*NaCl and MgCl<sub>2</sub>: A Study on the Role of Deicers in the Deterioration of Various Materials*

**Association for Women Geoscientists  
Laramide Chapter**

Shania Gonzales 7<sup>th</sup> grade  
\$75, achievement medal  
Cesar Chavez Academy Pueblo  
*Radiation Fog*

Teisha Coffield 7<sup>th</sup> grade  
\$75, achievement medal  
Lone Star School Otis  
*Rethinking De-inking*

**Boulder Flycasters - Trout Unlimited**

Brett Ferraro 8<sup>th</sup> grade  
\$100 savings bond, Boulder Flycaster's hat  
Vail Mountain School Vail  
*Troubled Waters?*

**Colorado Association of Meat Processors**

Kelly Christensen & Molly McMahon 12<sup>th</sup> grade  
certificate, \$60  
Monarch High School Louisville  
*Generation of a RNA Probe for In Situ Hybridization*

**Colorado Association of Science Teachers  
CAST Awards**

Robin Austin 8<sup>th</sup> grade  
certificate, \$75  
Columbine Christian School Durango  
*Yeast: CO<sub>2</sub> Output Using Natural and Artificial Sweeteners*

Grant Yowell 8<sup>th</sup> grade  
certificate, \$75  
Genoa-Hugo School Hugo  
*Go Green with BioPlastics*

Sarah Kerbs 11<sup>th</sup> grade  
certificate, \$75  
Wray High School Wray  
*Bugs Be Gone! Evaluation of the Effectiveness of Pyrethrum and Synthetic Based Equine Insect Repellant*

Jaehee Park 11<sup>th</sup> grade  
certificate, \$75  
Fairview High School Boulder  
*Using Steel Wool to Remove Arsenic from Drinking Water*

**Gerald Gromko Award**

Samantha Ensz 11<sup>th</sup> grade  
\$175, plaque  
Hi-Plains Jr/Sr High School Seibert  
*Photon Emission Based on Color*

**Colorado Biology Teachers Association**

Reece Kothe 8<sup>th</sup> grade  
\$75, certificate  
Eaton Middle School Eaton  
*Common Lambsquarters Weed: Glyphosate Tolerant? Is It Too Late?*

Emily Schnoor 12<sup>th</sup> grade  
\$75, certificate  
Sargent Jr/Sr High School Monte Vista  
*The Answer Is in the Solution*

**Colorado Dental Association**

Michaela Keeler 8<sup>th</sup> grade  
\$50  
Hi-Plains Jr/Sr High School Seibert  
*Prevention of Bacteria from Ahhh to Z*

Tyler Chin 7<sup>th</sup> grade  
\$50  
Orchard Mesa Middle School Grand Junction  
*Dirty Mouth vs. Clean Mouth Cats (Who has the most bacteria in their saliva?)*

Lauren Dewey & Ellie Sullivan 6<sup>th</sup> grade  
\$50  
North Middle School Colorado Springs  
*Don't Kiss Your . . .*

Elaine Wolfe 12<sup>th</sup> grade  
\$100  
Fairview High School Boulder  
*The Effects of Common Oral Hygiene Routines on the Oral Microbiota*

## Colorado Division of Wildlife

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

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

## Colorado Environmental Health Association

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

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

## Colorado Foundation for Agriculture Agriculture in the Classroom Awards

Reece Kothe 8<sup>th</sup> grade  
\$50, certificate  
Eaton Middle School Eaton  
*Common Lambsquarters Weed: Glyphosate Tolerant? Is It Too Late?*

Johanne Albrightsen 8<sup>th</sup> grade  
\$50, certificate  
Summit Middle School Boulder  
*Allelopathic Effects of Picea pungens*

Savannah Schilling 12<sup>th</sup> grade  
\$50, certificate  
Broomfield High School Broomfield  
*There's Not Room in This Knapweed for the Both of Us*

Wylie Keller 10<sup>th</sup> grade  
\$50, certificate  
Monte Vista High School Monte Vista  
*Wool as a Potting Media*

## Colorado Geographic Alliance

Adam Hofinga 8<sup>th</sup> grade  
\$100  
Otis Jr/Sr High School Otis  
*Gone with the Wind*

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

## Colorado Medical Society

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

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

## Colorado Mineral Society

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

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

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

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

## Colorado River Watch

Torin McDonald 8<sup>th</sup> grade  
\$50  
Summit Middle School Boulder  
*The Impact of a Coal Mine on Water Quality*

## Colorado Scientific Society

Taylor Volesky 8<sup>th</sup> grade  
\$50  
Cherry Creek Challenge School Denver  
*The Physical Weathering of Rocks: The Freeze Thaw Cycle*

David Ritzwoller 8<sup>th</sup> grade  
\$75  
Summit Middle School Boulder  
*Do Earthquakes in Colorado Follow the Gutenberg-Richter Law?*

Johanna Phillips 10<sup>th</sup> grade  
\$75  
Monte Vista High School Monte Vista  
*Infested Forests and Evapotranspiration II: Developing a Watershed Model*

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

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

Rahul Shankarl 10<sup>th</sup> grade  
\$100 (to be mailed)  
Rampart High School Colorado Springs  
*Proteomic Method Development for the Analysis of Tissue Transglutaminases Role in Cancer Progression*

**Colorado State University  
Department of Chemistry Awards**

Leonard Brasuel 6<sup>th</sup> grade  
\$100 (to be mailed)  
North Middle School Colorado Springs  
*What's the Spiciest Part of a Chile?*

Jaehee Park 11<sup>th</sup> grade  
\$100 (to be mailed), certificate  
Fairview High School Boulder  
*Using Steel Wool to Remove Arsenic from Drinking Water*

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

Elizabeth Hoffner 8<sup>th</sup> grade  
\$100 (to be mailed), certificate  
Home Schooled Center  
*Healthy and Nutritious Spud*

Haley Matteson 8<sup>th</sup> grade  
\$100 (to be mailed), certificate  
North Middle School Colorado Springs  
*Sick Plants, Well Plants: Using Plants as Biological Indicators of Pharmaceutical Pollution*

Kyle Harlow 9<sup>th</sup> grade  
\$100 (to be mailed), certificate  
Canon City High School Canon City  
*Dandelions Dare to Differ: Measuring the Phenotypical Variations of *Taraxacum officinale**

Wylie Keller 10<sup>th</sup> grade  
\$100 (to be mailed), certificate  
Monte Vista High School Monte Vista  
*Wool as a Potting Media*

**Colorado Trout Unlimited**

Brisha Wakasugi 9<sup>th</sup> grade  
\$100 savings bond, copy of "Trout and Salmon of North America by Dr. Robert Behnke  
Sierra Grande High School Blanca  
*Kerber Creek Restoration Using Phytoremediation II: Understanding the Link between Macroinvertebrate and Water Quality*

**Colorado Veterinary Medical Association &  
CVMS Auxiliary**

Aleesa Muir 6<sup>th</sup> grade  
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate, gold medallion  
The Classical Academy Colorado Springs  
*Developing an Awareness of Pet Stewardship*

Alexa Major 10<sup>th</sup> grade  
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate, gold medallion  
Fowler School Fowler  
*Got A1 or A2 Milk?*

**Colorado-Wyoming Society of American Foresters**

Melinda Vickers 8<sup>th</sup> grade  
\$100 savings bond  
Eagle County Charter School Edwards  
*A Burning Question*

Nakayla Lestina 10<sup>th</sup> grade  
\$100 savings bond  
Dove Creek High School Dove Creek  
*Biological Control of Tamarisk: Analyzing the Tamarisk Leaf*

Nikki Buhrdorf 10<sup>th</sup> grade  
\$100 savings bond  
Hotchkiss High School Hotchkiss  
*Aspen in a State of SADness: A Statistical Analysis of the Decline of *Populus tremuloides**

**Division of Reclamation Mining and Safety**

Nathan Witt 7<sup>th</sup> grade  
certificate, \$75 (to be mailed)  
Arriba-Flagler School Flagler  
*Riprap Gives Erosion a Nap*

Tanya Petach 11<sup>th</sup> grade  
certificate, \$75 (to be mailed)  
Fairview High School Boulder  
*Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors*

**Fort Collins Conservation District**

Devon Enke 8<sup>th</sup> grade  
plaque, \$50  
La Veta Jr/Sr High School La Veta  
*Mycorrhizal Symbiosis: Unlocking the Potential of Soil*

Nakayla Lestina 10<sup>th</sup> grade  
plaque, \$50  
Dove Creek High School Dove Creek  
*Biological Control of Tamarisk: Analyzing the Tamarisk Leaf*

**Frank Armbruster Foundation  
Charles Armbruster Memorial Award**

Ian Morrison & Michael Caro 8<sup>th</sup> grade  
\$100  
Brentwood Middle School Greeley  
*It's Electric*

## Hands and Minds, Inc.

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

### Human Factors and Ergonomics Society, Rocky Mountain Chapter

Reid Palser 7<sup>th</sup> grade  
\$100  
Otis Jr/Sr High School Otis  
*Submersible Vehicle Design and Modification*

Garrett Glissmann 10<sup>th</sup> grade  
\$100  
Boulder High School Boulder  
*Leveraging the Twitter Platform for Mass Communication and  
Collection of Opinions*

### Institute of Electrical and Electronic Engineers, High Plans Section

Dylan Schlager 8<sup>th</sup> grade  
\$100  
Summit Middle School Boulder  
*Internet through a Can???*

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

### Little Shop of Physics

#### Matthew McCausland Memorial Awards

Emma Frantz 7<sup>th</sup> grade  
\$100  
North Middle School Colorado Springs  
*The Effects of Magnetic Levitation on Friction Force*

Tucker Leavitt & Samuel Kater 9<sup>th</sup> grade  
\$100  
Animas High School Durango  
*Electrostatic Power Amplification*

### Lockheed Martin

Emma Frantz 7<sup>th</sup> grade  
\$50  
North Middle School Colorado Springs  
*The Effects of Magnetic Levitation on Friction Force*

Jesse Ellison 12<sup>th</sup> grade  
\$100  
Fairview High School Boulder  
*Constructing a Novel Cage Molecule for Use in a Dye-Sensitized  
Solar Cell*

## Morris Animal Foundation

Randi Timmons 9<sup>th</sup> grade  
\$100 (to be mailed)  
Walsh Jr/Sr High School Walsh  
*Upset Equine: Saving with Science*

Emily Schnoor 12<sup>th</sup> grade  
\$150 (to be mailed)  
Sargent Jr/Sr High School Monte Vista  
*The Answer Is in the Solution*

Erik Schnaderbeck 11<sup>th</sup> grade  
\$150 (to be mailed)  
Sargent Jr/Sr High School Monte Vista  
*Identifying Individual Rainbow Trout Utilizing Distinct Spot  
Orientation*

### MWH Americas, Inc. Sustainable Future Awards

Ryan Mitchell & Drake Hammond 8<sup>th</sup> grade  
plaque, \$100  
Cherry Creek Challenge School Denver  
*How Much Are You Wasting?*

Grant Yowell 8<sup>th</sup> grade  
plaque, \$200  
Genoa-Hugo School Hugo  
*Go Green with BioPlastics*

Michael Lingus 11<sup>th</sup> grade  
plaque, \$100  
Branson School Branson  
*Going with the Wind: A Step Toward Alternative Energy*

Christy Farnsworth 12<sup>th</sup> grade  
plaque, \$200  
Paonia Jr/Sr High School Paonia  
*A New Look of Alternative Energy*

### National Geophysical Data Center

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

### Optical Society of America Rocky Mountain Section

Jessica O'Brien 8<sup>th</sup> grade  
certificate, 2-year subscription to Discover magazine  
Peak to Peak Charter School Lafayette  
*Picture Perfect*

Katelyn Yowell 11<sup>th</sup> grade  
certificate, 2-year subscription to Discover magazine  
Genoa-Hugo School Hugo  
*Chlorophyll in Your Lip Balm?*

## Rio Tinto Minerals, Inc.

Jared Webster 6<sup>th</sup> grade  
\$75 (to be mailed)  
Miller Middle School Durango  
*Effects of Road Salt on Plant Growth*

Teisha Coffield 7<sup>th</sup> grade  
\$125 (to be mailed)  
Lone Star School Otis  
*Rethinking De-Inking*

Drew Auburger 9<sup>th</sup> grade  
\$75 (to be mailed)  
Springfield Jr/Sr High School Springfield  
*KOH vs. NaHCO<sub>3</sub>: The Effects of Potassium Hydroxide vs. Baking Soda as Catalysts in a Hydrogen Electrolyzer*

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

## Seagate Technology & Science Buddies

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

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

## SACNAS Colorado State University Chapter

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

Xavier Eddy 7<sup>th</sup> grade  
\$50 (to be mailed)  
Cortez Middle School Durango  
*The Hovercraft Project*

Megan Perez 10<sup>th</sup> grade  
\$50 (to be mailed)  
Del Norte High School Del Norte  
*The Hovercraft Project*

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

## Society for Mining, Metallurgy and Exploration Colorado Section

Torin McDonald 8<sup>th</sup> grade  
\$100, plaque  
Summit Middle School Boulder  
*The Impact of a Coal Mine on Water Quality*

Taylor Volesky 8<sup>th</sup> grade  
\$200, plaque  
Cherry Creek Challenge School Denver  
*The Physical Weathering of Rocks: The Freeze Thaw Cycle*

Tanya Petach 11<sup>th</sup> grade  
\$100, plaque  
Fairview High School Boulder  
*Colorado River Salinity: Correlation to Geostata and Mitigation with Carbon-Fiber Capacitors*

J. Raleigh Burt 12<sup>th</sup> grade  
\$200, plaque  
Sargent Jr/Sr High School Monte Vista  
*Optimizing Energy Extraction and Water Conservation of Geothermal Heating Systems, Part II*

## Society of Manufacturing Engineers Colorado Chapter 354

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

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

## Society of Women Engineers Rocky Mountain Section

Emma Frantz 7<sup>th</sup> grade  
\$75, certificate  
North Middle School Colorado Springs  
*The Effects of Magnetic Levitation on Friction Force*

Cecelia Brennan 8<sup>th</sup> grade  
\$100, certificate  
Holy Family Catholic School Grand Junction  
*Revolutionizing Household Appliances*

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

Kelli Lynch 10<sup>th</sup> grade  
\$100, certificate  
Rocky Mountain High School Fort Collins  
*Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms*



**Soil & Water Conservation Society  
Colorado Chapter**

Jessie McLaughlin & Erin McLaughlin 8<sup>th</sup> grade  
\$25, certificate, ribbon  
Sacred Heart of Jesus School Boulder  
*Irrigation Water Salinity and Its Effect on Early Plant Growth*

Devon Enke 8<sup>th</sup> grade  
\$50, certificate, ribbon  
La Veta Jr/Sr High School La Veta  
*Mycorrhizal Symbiosis: Unlocking the Potential of Soil*

Nakayla Lestina 10<sup>th</sup> grade  
\$25, certificate, ribbon  
Dove Creek High School Dove Creek  
*Biological Control of Tamarisk: Analyzing the Tamarisk Leaf*

Brisha Wakasugi 9<sup>th</sup> grade  
\$50, certificate, ribbon  
Sierra Grande High School Blanca  
*Kerber Creek Restoration Using Phytoremediation II: Understanding the Link Between Macroinvertebrate and Water Quality*

**SPIE**

**The International Society for Optics and Photonics**

Courtney Ensz 8<sup>th</sup> grade  
\$100 (to be mailed)  
Hi-Plains Jr/Sr High School Seibert  
*Solar Heat*

Jonah Archuleta 8<sup>th</sup> grade  
\$150 (to be mailed)  
Goodnight School Pueblo  
*Refraction Confection*

Nathanael Ramirez 8<sup>th</sup> grade  
\$250 (to be mailed)  
Sargent Jr/Sr High School Monte Vista  
*The "Light" of Our Lives*

Lucia Guatney 11<sup>th</sup> grade  
\$100 (to be mailed)  
Cherry Creek High School Greenwood Village  
*The Feasibility of Solar Light Pressure as a Means of Interstellar Propulsion*

Garrett Crownover 11<sup>th</sup> grade  
\$150 (to be mailed)  
Plainview School Sheridan Lake  
*Laptop Screen: Entertainment or Energy?*

Kelli Lynch 10<sup>th</sup> grade  
\$250 (to be mailed)  
Rocky Mountain High School Fort Collins  
*Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms*

**The Inventors' Roundtable**

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

**United States Department of Commerce**

Robin Betz 12<sup>th</sup> grade  
alternate for the opportunity for summer employment with the Department of Commerce  
Fairview High School Boulder  
*Automated Image Reassembly with a Hybrid Genetic Algorithm*

Henry Shannan 12<sup>th</sup> grade  
opportunity for summer employment with the Department of Commerce with the possibility for future employment  
Fairview High School Boulder  
*A 2.3m Dual Band Radio Telescope for Power Mapping and Line Spectra Observations*

**United States Geological Survey  
USGS Awards**

Taylor Volesky 8<sup>th</sup> grade  
reference book, mineral specimen  
Cherry Creek Challenge School Denver  
*The Physical Weathering of Rocks: The Freeze Thaw Cycle*

Casey Campbell 9<sup>th</sup> grade  
reference book, mineral specimen  
La Veta Jr/Sr High School La Veta  
*Engineering a Path to Cleaner Water: Implementing the Phytoremediation of Coal Bed Methane*

**University of Colorado Denver**

*Medical Scientist Training Program Awards*

Radhika Rawat 12<sup>th</sup> grade  
\$50  
Boulder High School Boulder  
*Pre-Initiation Complexes of SREBP-1a and -2*

Connie Liu 11<sup>th</sup> grade  
\$50  
Cherry Creek High School Greenwood Village  
*Therapeutic Use of microRNA-200c to Treat HEY Ovarian Cancer*

**University of Northern Colorado**

*MAST Institute Awards*

Kyle Kihn 8<sup>th</sup> grade  
\$50  
Nevin Platt Middle School Boulder  
*Stopping the Spread of H1N1: A Computer Simulation*

Joshua Garcia 11<sup>th</sup> grade  
\$50  
Monte Vista High School Monte Vista  
*Are You Confined to a Life with Musical Disabilities?*

**Wojtaszek Family**

*Paul Wojtaszek Memorial Award*

Kelly Christensen & Molly McMahon 12<sup>th</sup> grade  
\$500 scholarship to a school of the student's choosing  
Monarch High School Louisville  
*Generation of a RNA Probe for In Situ Hybridization*

## Xcel Energy

### Environmental Stewardship Awards

|  |                                       |
|--|---------------------------------------|
| Grant Yowell<br>\$50<br>Genoa-Hugo School<br><i>Go Green with BioPlastics</i>  | 8 <sup>th</sup> grade<br>Hugo         |
| J. Raleigh Burt<br>\$100<br>Sargent Jr/Sr High School<br><i>Optimizing Energy Extraction and Water Conservation of Geothermal Heating Systems, Part II</i> | 12 <sup>th</sup> grade<br>Monte Vista |

### Innovation in Energy Awards

|  |   |
|--|---|
| Morgan Felix<br>\$50<br>Olathe Middle School<br><i>Magnobile</i>   | 7 <sup>th</sup> grade<br>Olathe             |
| Scott Martin<br>\$100<br>Cherry Creek High School<br><i>Storing and Harnessing Energy through Pumped Micro-Hydroelectric Systems</i> | 12 <sup>th</sup> grade<br>Greenwood Village |

## Yale University Science and Engineering Association

|   |  |
|---|--|
| John Parish IV<br>certificate, pewter medallion (to be mailed)<br>Home Schooled<br><i>Closer to Where It Wasn't: Estimation and Tracking Using Adaptive Filtering</i> | 11 <sup>th</sup> grade<br>Colorado Springs |
|---|--|

## Zonta Club of Boulder County Amelia Earhart Award

|  |                                     |
|--|-------------------------------------|
| Julianna Manfredo<br>\$100<br>Harrison School<br><i>Spot on Powder Power</i> | 8 <sup>th</sup> grade<br>Canon City |
|--|-------------------------------------|

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## Scholarships

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## Adams State College Adams State College Scholarships

|   |                                       |
|---|---------------------------------------|
| Nakayla Lestina<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Dove Creek High School<br><i>Biological Control of Tamarisk: Analyzing the Tamarisk Leaf</i> | 10 <sup>th</sup> grade<br>Dove Creek  |
| Joshua Garcia<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Monte Vista High School<br><i>Are You Confined to a Life with Musical Disabilities?</i>        | 11 <sup>th</sup> grade<br>Monte Vista |
| Katelyn Yowell<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Genoa-Hugo School<br><i>Chlorophyll in Your Lip Balm?</i>                                     | 11 <sup>th</sup> grade<br>Hugo        |

|  |                                       |
|--|---------------------------------------|
| Johanna Phillips<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Monte Vista High School<br><i>Infested Forests and Evapotranspiration II: Developing a Watershed Model</i> | 10 <sup>th</sup> grade<br>Monte Vista |
|--|---------------------------------------|

|  |                                   |
|--|-----------------------------------|
| Michael Lingus<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Branson School<br><i>Going with the Wind: A Step Toward Alternative Energy</i> | 11 <sup>th</sup> grade<br>Branson |
|--|-----------------------------------|

|  |                                  |
|--|----------------------------------|
| Casey Campbell<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>La Veta Jr/Sr High School<br><i>Engineering a Path to Cleaner Water: Implementing the Phytoremediation of Coal Bed Methane</i> | 9 <sup>th</sup> grade<br>La Veta |
|--|----------------------------------|

|   |                                     |
|---|-------------------------------------|
| Megan Perez<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Del Norte High School<br><i>The Hovercraft Project</i> | 10 <sup>th</sup> grade<br>Del Norte |
|---|-------------------------------------|

|   |                                |
|---|--------------------------------|
| Ashlynn Miller<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Lone Star School<br><i>Determination of Fractal Dimension of Blood Spatter Patterns</i> | 11 <sup>th</sup> grade<br>Otis |
|---|--------------------------------|

|   |                                 |
|---|---------------------------------|
| Jessica O'Clair<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Brush High School<br><i>The Effect of Ultraviolet Light on Vitamin C Content in Strawberries</i> | 11 <sup>th</sup> grade<br>Brush |
|---|---------------------------------|

|  |  |
|--|--|
| Kelli Lynch<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Rocky Mountain High School<br><i>Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms</i> | 10 <sup>th</sup> grade<br>Fort Collins |
|--|--|

|  |                                 |
|--|---------------------------------|
| Amy Lyne<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Brush High School<br><i>Investigation of Wave Phenomenon</i> | 11 <sup>th</sup> grade<br>Brush |
|--|---------------------------------|

|   |                                      |
|---|--------------------------------------|
| Jordan Lestina<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Dove Creek High School<br><i>Biodiesel from Sunflowers: An Analysis of Planting Dates, Soil Temperature and Oil Content</i> | 11 <sup>th</sup> grade<br>Dove Creek |
|---|--------------------------------------|

|  |                                  |
|--|----------------------------------|
| Fletcher Richman & Michael Schwener<br>equivalent to one-year resident tuition and fees (approximately \$5,000)<br>Basalt High School<br><i>pH Effects on the Enzyme Cellulase in Biofuel Production</i> | 12 <sup>th</sup> grade<br>Basalt |
|--|----------------------------------|

## Colorado School of Mines

### Colorado School of Mines Scholarships

|  |                        |
|--|------------------------|
| Jaehee Park  | 11 <sup>th</sup> grade |
| \$1,000 renewable undergraduate scholarship  |                        |
| Fairview High School   | Boulder                |
| <i>Using Steel Wool to Remove Arsenic from Drinking Water</i>  |                        |
| Tanya Petach   | 11 <sup>th</sup> grade |
| \$1,000 renewable undergraduate scholarship  |                        |
| Fairview High School   | Boulder                |
| <i>Colorado River Salinity: Correlation to Geostrata and Mitigation with Carbon-Fiber Capacitors</i> |                        |
| Michael Lingus   | 11 <sup>th</sup> grade |
| \$1,000 renewable undergraduate scholarship  |                        |
| Branson School   | Branson                |
| <i>Going with the Wind: A Step Toward Alternative Energy</i>   |                        |
| Jeffrey Hibbert  | 11 <sup>th</sup> grade |
| \$1,000 renewable undergraduate scholarship  |                        |
| Lone Star School   | Otis                   |
| <i>The Implications of Using Carbon Nanotubes to Promote Algal Growth</i>                            |                        |
| Ashlynn Miller   | 11 <sup>th</sup> grade |
| \$1,000 renewable undergraduate scholarship  |                        |
| Lone Star School   | Otis                   |
| <i>Determination of Fractal Dimension of Blood Spatter Patterns</i>                                  |                        |

### Propst Scholarships

#### Propst Medicine & Health Scholarship

|   |                        |
|---|------------------------|
| Kelli Lynch   | 10 <sup>th</sup> grade |
| \$3,000 nonrenewable scholarship to school of choice  |                        |
| Rocky Mountain High School  | Fort Collins           |
| <i>Irradiation Extermination: A Portable System to Eliminate Water-Borne Microorganisms</i> |                        |

#### Propst Moving Science Forward Scholarships

|  |                        |
|--|------------------------|
| Nikki Buhrdorf   | 10 <sup>th</sup> grade |
| \$1,000 nonrenewable scholarship to school of choice   |                        |
| Hotchkiss High School  | Hotchkiss              |
| <i>Aspen in a State of SADness: A Statistical Analysis of the Decline of Populus tremuloides</i> |                        |

|  |                        |
|--|------------------------|
| Ben Armstrong  | 12 <sup>th</sup> grade |
| \$1,000 nonrenewable scholarship to school of choice |                        |
| Monte Vista High School                              | Monte Vista            |
| <i>The Uptake of Endocrine Disrupting Chemicals</i>  |                        |

### Intel Foundation

#### Ryan Patterson Scholarship

|  |                        |
|--|------------------------|
| Kerry Betz   | 12 <sup>th</sup> grade |
| \$2,000 nonrenewable scholarship to school of choice                             |                        |
| Fairview High School   | Boulder                |
| <i>Constructing a Novel Cage Molecule for Use in a Dye-Sensitized Solar Cell</i> |                        |

### Intel Foundation

#### Teacher of the Year Award

|  |      |
|--|------|
| James DePue                                  |      |
| \$3,000 grant – sponsored by Lockheed Martin |      |
| Wray High School                             | Wray |

## Professional Association of Colorado Educators

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

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

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

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

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

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

|   |             |
|---|-------------|
| Gary Wilkinson  |             |
| scholarship to attend a Space Foundation professional development workshop of choice during summer 2010 |             |
| Monte Vista High School   | Monte Vista |

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

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## Society for Science & the Public

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### American Psychological Association

#### Achievement in Psychological Science Award

|  |                        |
|--|------------------------|
| Sarah Oden   | 11 <sup>th</sup> grade |
| certificate  |                        |
| Monte Vista High School                                | Monte Vista            |
| <i>Human Perception: A Study on Implicit Prejudice</i> |                        |

### Intel Corporation

#### Excellence in Computer Science Award

|  |                        |
|--|------------------------|
| John Parish IV   | 11 <sup>th</sup> grade |
| certificate, \$200 (to be mailed later)  |                        |
| Home Schooled  | Colorado Springs       |
| <i>Closer to Where It Wasn't: Estimation and Tracking Using Adaptive Filtering</i> |                        |

**National High School & Two-Year College  
Mathematics Honor Society  
Mu Alpha Theta Award**

John Parish IV 11<sup>th</sup> grade  
certificate  
Home Schooled Colorado Springs  
*Closer to Where It Wasn't: Estimation and Tracking Using  
Adaptive Filtering*

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

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

**National Society of Professional Engineers  
Innovative Engineering Award**

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

**Ricoh**

*Ricoh Sustainability Development Award*

Melinda Vickers 8<sup>th</sup> grade  
certificate  
Eagle County Charter Academy Edwards  
*A Burning Question*

**Society for In Vitro Biology**

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

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

**United States Metric Association**

*Best Use of the International System of Units Award*

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

**United States Public Health Service**

*The Surgeon General's Challenge*

Megan Percy 7<sup>th</sup> grade  
certificate  
The Classical Academy Colorado Springs  
*The Best Thing Since Fresh Fruit*

**Water Environment Federation  
Stockholm Junior Water Prize**

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

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