

Colorado Students Chosen to Attend Intel International Science & Engineering Fair 2012

The following students will attend the Intel International Science and Engineering Fair May 13 - 18, 2012, representing the Colorado Science and Engineering Fair and 10 of the 13 Regional Science Fairs.

Colorado Science & Engineering Fair

Sara Volz, 11th grade, from Cheyenne Mountain High School in Colorado Springs with the project entitled *Optimizing Algae Biofuels: Artificial Selection & Nitrogen Stress as Methods to Induce Lipid Synthesis*.

Lawrence Zhang, 10th grade, from Fairview High School in Boulder with the project entitled *miRNA 205: Suppressing Inpp4b and Wnt5a Expression*.

Easton LaChappelle, 10th grade, from Mancos High School in Mancos with the project entitled *Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis*.

Arkansas Valley Regional Science Fair

Devon Enke, 10th grade, from La Veta Jr/Sr High School in La Veta with the project entitled *Mycoremediation: Using Pleurotus ostreatus Mycelium to Remove Petroleum Hydrocarbons from Freshwater and Saltwater Environments*.

Boulder Valley Regional Science Fair

Wyatt Goodin, 11th grade, from Fairview High School in Boulder with the project entitled *Examination of Power Grid Cascading Failure Through Simulation*. Wyatt took 2nd Place in the Energy & Transportation category at CSEF.

Nicolette Laird, 12th grade, from Monarch High School in Lafayette with the project entitled *The Role of the miR-106b-25 miRNAs in Predicting Breast Cancer Outcomes in Differential Subtypes*. Nicolette received an Honorable Mention in the Medicine & Health category at CSEF.

Denver Metro Regional Science Fair

Boyu Wang, 12th grade, Yichen Liu, 12th grade, & Stephan Liu, 11th grade, from Lakewood High School in Lakewood with the project entitled *Self-Sustained Desalination in Combination with Wastewater Treatment – Hybrid Microbial Desalination*. Boyu, Yichen & Stephan received an Honorable Mention in the Environmental Sciences category at CSEF.

Longs Peak Regional Science Fair

Kelli Lynch, 12th grade, from Rocky Mountain High School in Fort Collins with the project entitled *Irradiation Extermination Part 3: A Portable System to Eliminate Waterborne Microorganisms*. Kelli took 1st Place in the Microbiology category at CSEF.

Morgan/Washington Bi-County Regional Science Fair

Teisha Coffield, 9th grade, from Lone Star School in Otis with the project *Chemotaxis in Physarum polycephalum: A Model for the Effects of Antioxidants on Cancer Progression*.

Jacob Nichols, 10th grade, from Brush High School in Brush with the project *An Investigation of the Washboard Road Phenomenon*. Jacob took 2nd Place in the Physics category at CSEF.

Northeast Colorado Regional Science Fair

Kayla Sherman, 12th grade, from Sterling High School with the project entitled *The Effects of Ganoderma Lucidum and Spirulina Platensis on Rat Adrenal Pheochromocytoma Cells*.

Pikes Peak Regional Science Fair

Sydney Matteson, 9th grade, from Palmer High School in Colorado Springs with the project entitled *How Well Is Your Well: The Effect of Hydrofracking Fluids on a Eukariotic Species*. Sydney took 3rd Place in the Earth & Space Sciences category at CSEF.

Maislin Helfer, 9th grade, from Palmer High School in Colorado Springs with the project entitled *Lights Out: The Use of Vibrio fischeri to Determine Water Quality*.

Matthew Hileman, 9th grade, & Wesley Hileman, 11th grade, from The Classical Academy in Colorado Springs with the project entitled *Ion Propulsion: Electrostatic Thruster Design and Optimization for Space Applications*. Matthew & Wesley took 2nd Place in the Engineering category at CSEF.

San Juan Basin Regional Science Fair

Nakayla Lestina, 12th grade, from Dove Creek High School in Dove Creek with the project entitled *Biological Control of Diffuse Knapweed: Analyzing Two Natural Insect Enemies*. Nakayla took 2nd Place in the Animal Sciences category at CSEF.

San Luis Valley Regional Science Fair

Johanna Phillips, 12th grade, from Monte Vista High School in Monte Vista with the project entitled *Water In, Water Out: Using a Water Balance Model to Estimate Net Consumptive Availability*. Johanna took 1st Place in the Earth & Space Sciences category at CSEF.

Tayler Rocha, 10th grade, from Monte Vista High School in Monte Vista with the project entitled *Macroinvertebrate and Nutrient Response to Stream Water Quality After a Wildfire on Medano Creek*. Tayler received an Honorable Mention in the Environmental Sciences category at CSEF.

Western Colorado Regional Science Fair

Nikki Buhrdorf, 12th grade, & Vikash Hypio, 12th grade, from Hotchkiss High School in Hotchkiss with the project entitled *Mytilus edulis Protein Strength: Mussels Have Muscles*. Nikki & Vikash took 1st Place in the Animal Sciences category at CSEF.

Braeden Horton, 12th grade, Brydie Mitchell, 11th grade, & Elizabeth Wood, 12th grade, from Hotchkiss High School in Hotchkiss with the project entitled *The Rubik's Cube of Political Gridlock: Resistance to Change in the American Tax System*. Braeden, Brydie & Elizabeth took 3rd Place in the Behavioral & Social Sciences category at CSEF.

2012 Colorado Science and Engineering Fair

Grand Awards Press Release

Junior Division Best CSEF Project

First Place

Marlo Masters 7th grade
My Mom Was Robbed!!
 The Classical Academy Colorado Springs

Second Place

Evan Savage 7th grade
Growing Algae for Biodiesel in the Desert
 Boulder Country Day School Boulder

Third Place

Aleesa Muir 8th grade
Analyzing the Effects of Dietary Supplement Consumption on Probiotic Growth
 The Classical Academy Colorado Springs

Senior Division Best CSEF Project

First Place

Sara Volz 11th grade
Optimizing Algae Biofuels: Artificial Selection & Nitrogen Stress as Methods to Induce Lipid Synthesis
 Cheyenne Mountain High School Colorado Springs

Second Place

Lawrence Zhang 10th grade
miRNA 205: Suppressing Inpp4b and Wnt5a Expression
 Fairview High School Boulder

Third Place

Easton LaChappelle 10th grade
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis
 Mancos High School Mancos

Junior Division Animal Sciences

First Place

Nadja de Sa 7th grade
Sticky Fingers
 The Classical Academy Colorado Springs

Second Place

Madison Olver 7th grade
Hay! How's Your Dust, Mold, and Nutritional Value?
 Blevins Middle School Fort Collins

Third Place

Rene Carter 8th grade
Genetic Reproduction Patterns of Mice
 North Middle School Colorado Springs

Fourth Place

Megan Godsey 7th grade
Daphnia Heart Rate Under Caffeinated Conditions
 Buchanan Middle School Wray

Honorable Mention

Sofia Antal 8th grade
Hydra Reproduction Rates in Correlation with Their Environment
 Cherry Creek Challenge School Denver

Senior Division Animal Sciences

First Place

Nikki Buhdorf 12th grade
 Vikash Hypio 12th grade
Mytilus edulis Protein Strength: Mussels Have Muscles
 Hotchkiss High School Hotchkiss

Second Place

Nakayla Lestina 12th grade
Biological Control of Diffuse Knapweed: Analyzing Two Natural Insect Enemies
 Dove Creek High School Dove Creek

Third Place

Beth Lenz 11th grade
Calving Under Pressure
 Wray High School Wray

Fourth Place

Tess Ringlein 10th grade
One Fish, Two Fish, Normal Fish?
 Lone Star High School Otis

Honorable Mention

Nicholas Lobato 10th grade
Studying the Effects of Incubation Rates and Water Temperature on Gila Pandora's Eggs
 Center High School Center

Junior Division Behavioral & Social Sciences

First Place

Callie Matteson 6th grade
 Ashley Vitti 6th grade
Just a Minute
 North Middle School Colorado Springs

Second Place

Kristina Cavey 8th grade
Secret Savior
 Turner Middle School Berthoud

Third Place		
Diego Ruis	7th grade	
<i>Human Reactions Under Pressure</i>		
Union Colony Preparatory School	Greeley	
Fourth Place		
Wyatt Hurt	7th grade	
<i>How Is the Accuracy of Eyewitness Testimony Affected by the Method of Questioning?</i>		
East Middle School	Grand Junction	
Honorable Mention		
Bethany Levy	8th grade	
<i>Operation Meditation</i>		
Cortez Middle School	Cortez	
Honorable Mention		
Lauren Lang	8th grade	
<i>Very Handy</i>		
Peak to Peak Charter School	Lafayette	
Honorable Mention		
Mallory Noble	8th grade	
<i>Brains vs. Brawn</i>		
Otis Jr/Sr High School	Otis	

**Senior Division
Behavioral & Social Sciences**

First Place		
Caitlyn Lee	9th grade	
<i>Happiness is Associated with a Stronger Belief in the Value of Prosocial Behavior</i>		
Fairview High School	Boulder	
Second Place		
Dora Seres	10th grade	
<i>Evaluation of Creek's Graduating Class of 2011</i>		
Cherry Creek High School	Greenwood Village	
Third Place		
Braeden Horton	12th grade	
Brydie Mitchell	11th grade	
Elizabeth Wood	12th grade	
<i>The Rubik's Cube of Political Gridlock: Resistance to Change in the American Tax System</i>		
Hotchkiss High School	Hotchkiss	
Fourth Place		
Cristina Loranca	11th grade	
<i>A la Derecha o a la Izquierda (To the Right or To the Left)</i>		
Arickaree School	Anton	
Honorable Mention		
Dorothee Bohme	11th grade	
<i>How to Negate the Stroop Effect</i>		
Arickaree School	Anton	

Honorable Mention		
Kate Weimer	11th grade	
<i>A Colorful Debate: A Study on the Effect of FD&C Yellow 5 on Gromphadorhina portentosa</i>		
Merino Jr/Sr High School	Merino	

**Junior Division
Chemistry**

First Place		
Marlo Masters	7th grade	
<i>My Mom Was Robbed!!</i>		
The Classical Academy	Colorado Springs	
Second Place		
Nicholas Finan	8th grade	
<i>Sticky Water: Intermolecular Attraction</i>		
Peak to Peak Charter School	Lafayette	
Third Place		
Chris Alleman	8th grade	
<i>What's Up with the Poudre?</i>		
Kinard Middle School	Fort Collins	
Fourth Place		
Karli Buchanan	7th grade	
<i>Kitchen Chemistry 101: Fluffy Pancakes</i>		
Buchanan Middle School	Wray	
Honorable Mention		
Matthew Manfredo	8th grade	
<i>An "Egg"cellent "Eggs"periment</i>		
Harrison School	Canon City	
Honorable Mention		
Zach Wilson	6th grade	
<i>Tip of the Iceberg: Lowering the Melting Point of Water</i>		
Walsh Elementary School	Walsh	

**Senior Division
Chemistry**

First Place		
Gerri Roberts	11th grade	
Hannah West	11th grade	
<i>Green Processing of Fatty Acids for Fuel Production</i>		
Poudre High School	Fort Collins	
Second Place		
Aniruddh Prakash	11th grade	
<i>Effect of Defects on Selectivity Parameters of SAPO-34 Zeolite Membranes</i>		
Fairview High School	Boulder	
Third Place		
Sydney Anderson	10th grade	
Rowan Binkley-Jones	10th grade	
<i>Shampoo Chemistry</i>		
Edison High School	Yoder	

Fourth Place

John Cheslock 10th grade
*Comparative Study of Binding Strengths of Food Dyes
 FDA Red 40 & Natural Extract Betanin on Firboin*
 Sargent High School Monte Vista

Honorable Mention

LaRae Cesko 10th grade
Stainless Truth
 Arriba-Flagler School Flagler

**Junior Division
 Earth & Space Sciences**

First Place

Alexandra Famiglietti 8th grade
*Dissolving History: The Effects of Acid Rain on Marble
 and Other Building Materials*
 Cherry Creek Challenge School Denver

Second Place

Ivo Erben 8th grade
Hyperborean History
 Summit Middle School Boulder

Third Place

Kelsey Kimberling 7th grade
Dust Away
 Sargent Junior High School Monte Vista

Fourth Place

David McHugh 8th grade
Commotion in the Ocean
 Banning Lewis Ranch Academy Colorado Springs

**Senior Division
 Earth & Space Sciences**

First Place

Johanna Phillips 12th grade
*Water In, Water Out: Using a Water Balance Model to
 Estimate Net Consumptive Availability*
 Monte Vista High School Monte Vista

Second Place

Anna Kulp 11th grade
*A New Approach to Treating & Remediating Incrusting
 Bacteria in Water Supply Wells via*
 Center High School Center

Third Place

Sydney Matteson 9th grade
*How Well Is Your Well: The Effect of Hydrofracking
 Fluids on a Eukariotic Species*
 Palmer High School Colorado Springs

Fourth Place

Isabella Soehn 11th grade
*A Wind Field Study Comparing Five Automatic Weather
 Stations on the Antarctic Ross Ice Shelf*
 Boulder High School Boulder

Honorable Mention

Emma Frantz 9th grade
*The Effect of the Sun on Cloud Formation and the Earth's
 Climate*
 Palmer High School Colorado Springs

**Junior Division
 Energy & Transportation**

First Place

Evan Savage 7th grade
Growing Algae for Biodiesel in the Desert
 Boulder Country Day School Boulder

Second Place

Keanan Anderson 6th grade
 Tate Hinger 6th grade
What Is the Delta T of a Two Can Stirling Engine?
 Pagosa Springs Middle School Pagosa Springs

Third Place

George Liu 7th grade
Caught Sleeping
 The Classical Academy Colorado Springs

Fourth Place

Mitchell Fosdick 7th grade
Hydrogen: The Clean Energy of Today
 Fowler Junior High School Fowler

Honorable Mention

Brandon Cruz 7th grade
Fossil Fuel
 Cesar Chavez Academy Pueblo

**Senior Division
 Energy & Transportation**

First Place

Sara Volz 11th grade
*Optimizing Algae Biofuels: Artificial Selection &
 Nitrogen Stress as Methods to Induce Lipid Synthesis*
 Cheyenne Mountain High School Colorado Springs

Second Place

Wyatt Goodin 11th grade
*Examination of Power Grid Cascading Failure Through
 Simulation*
 Fairview High School Boulder

Third Place

Max Snider 11th grade
Fermentation of Spirogyra After a Period of Growth
 Cherry Creek High School Greenwood Village

Fourth Place

Eric Lyne 9th grade
Boosting Solar-Collector Efficiency with a Fresnel Lens
 Brush High School Brush

Honorable Mention

Laura Brothers 12th grade
The Wind, the Windmill, and the Windcube
 Grace Preparatory Academy Durango

Honorable Mention

Noah Westfall 10th grade
Heat Transfer from Biomass II
 Cherry Creek High School Greenwood Village

**Junior Division
Engineering**

First Place

Leighton Burt 7th grade
Elastic, Plastic, or Bust: Investigating Yield Strength of Butyl Rubber Inner Tubes
 Sargent Junior High School Monte Vista

Second Place

Johann Kailey-Steiner 7th grade
Rocket Design Part 2 - Testing the Effects of Vortex Generators on Drag Coefficient
 Grant Beacon Middle School Denver

Third Place

Clint Sexton 8th grade
Wiismart
 Blevins Middle School Fort Collins

Fourth Place

Mary Hood 8th grade
Doggie's New Playmate
 Sargent Junior High School Monte Vista

Honorable Mention

Roger Nakagawa 6th grade
The Effect of Dimple Size on How Golf Balls Roll
 Hill Campus of Arts and Sciences Denver

**Senior Division
Engineering**

First Place

Easton LaChappelle 10th grade
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis
 Mancos High School Mancos

Second Place

Wesley Hileman 11th grade
 Matthew Hileman 9th grade
Ion Propulsion: Electrostatic Thruster Design and Optimization for Space Applications
 The Classical Academy Colorado Springs

Third Place

Nathan Frantz 12th grade
On the Road: From Dual Disability to Independence
 Fleming High School Fleming

Fourth Place

Connor Sendel 9th grade
Optimization of Materials for Catcher's Gear Chest Protectors
 Cherry Creek High School Greenwood Village

Honorable Mention

Joey Park 11th grade
 Matthew Winchester 11th grade
 Nidesh Lamichhane 11th grade
Nerve Cell Functions/Uses Outside the Body
 Cherry Creek High School Greenwood Village

**Junior Division
Environmental Sciences**

First Place

Joshua Courtney 6th grade
Condition Indexes of Fish as Bioindicators One Year After the Deepwater Horizon Oil Spill
 Monument Academy Monument

Second Place

Rahul Ramesh 7th grade
Got Fuel?
 Cherry Creek Challenge School Denver

Third Place

Ramsey Carter 8th grade
The Effect of a Thin, Clear, Plastic Membrane on a Snow Collector
 Hill Campus of Arts and Sciences Denver

Fourth Place

Emma Cooney 8th grade
Removing Copper with Fruit Peels and Seaweed
 Summit Middle School Boulder

Honorable Mention

Grace Romer 8th grade
Searching for Clarity: Drop by Drop
 Stanley British Primary School Denver

Honorable Mention

Rebecca Bloomfield 7th grade
Hit Me with Your Best (Lead) Shot: Lead Contamination on Rampart Shooting Range
 North Middle School Colorado Springs

**Senior Division
Environmental Sciences**

First Place

Leslie Seitz 9th grade
Running Dry? Developing an Intuitive Water Planning Interface
 Fairview High School Boulder

Second Place
Maislinn Helfer 9th grade
*Lights Out: The Use of Vibrio fischeri to Determine
Water Quality*
Palmer High School Colorado Springs

Third Place
Michael Seltzer 11th grade
An Inexpensive Method for Estimating Particle Pollution
Fairview High School Boulder

Fourth Place
Clark Cranfill 12th grade
Thicker Phloem = Funeral Home
Sargent High School Monte Vista

Honorable Mention
Tayler Rocha 10th grade
*Macroinvertebrate and Nutrient Response to Stream
Water Quality After a Wildfire on Medano Creek*
Monte Vista High School Monte Vista

Honorable Mention
Boyu Wang 12th grade
Yichen (Astron) Liu 12th grade
Stephan Liu 11th grade
*Self-Sustained Desalination in Combination with
Wastewater Treatment – Hybrid Microbial Desalination*
Lakewood High School Lakewood

Honorable Mention
Vishal Krishnan 10th grade
*Mitigation of Environmental Impacts Caused by Wind
Turbines*
Cherry Creek High School Greenwood Village

Honorable Mention
Brisha Wakasugi 11th grade
*Kerber Creek Restoration Using Phytoremediation III:
Prioritizing Clean-up Areas*
Sierra Grande Jr/Sr High School Blanca

**Junior Division
Mathematics & Computer Sciences**

First Place
Stevan Maksimovic 8th grade
*How an Author Affects His or Her Numerical Style of
Writing*
Summit Middle School Boulder

Second Place
Avi Swartz 7th grade
One Out of 400 Choose 100
Cherry Creek Challenge School Denver

Third Place
Peter Shearon 7th grade
Program and Play
The Classical Academy Colorado Springs

**Senior Division
Mathematics & Computer Sciences**

First Place
Jessica Constant 11th grade
*Computer Modeling V: A Predictive Model of Tracer
Dispersion in the Atmosphere*
Poudre High School Fort Collins

Second Place
Ben Ribovich 12th grade
Decomposition of Automorphism Groups
Cherry Creek High School Greenwood Village

Third Place
Cole Hugelmeyer 11th grade
*Proof That a Circular Hopf Link is a Stationary Point for
Mobius Energy*
Boulder High School Boulder

Fourth Place
Coby Buck 12th grade
Predicting Depressions with Presidential Regressions
Wray High School Wray

Honorable Mention
Simon Schaefer 10th grade
Gravity's Effect on Non-uniform Suspended Chains
Monte Vista High School Monte Vista

**Junior Division
Medicine & Health**

First Place
Aleesa Muir 8th grade
*Analyzing the Effects of Dietary Supplement
Consumption on Probiotic Growth*
The Classical Academy Colorado Springs

Second Place
Ted Dumont 7th grade
The Effect of Altitude on Hematocrit
Estes Park Middle School Estes Park

Third Place
Michael Harms 7th grade
Got Oxygen?
The Classical Academy Colorado Springs

Fourth Place
Alison Weinberger 8th grade
*Is Homeopathy More Than the Placebo? The Effect of
Homeopathic Arnica Montana on Fruit Flies*
Cherry Creek Challenge School Denver

Honorable Mention
Alea Hardesty 7th grade
Energy Buzz!
Buchanan Middle School Wray

Honorable Mention

Kaitlyn Carson 7th grade
iVet vs. Evo
 Preston Middle School Fort Collins

Honorable Mention

Nicole Whitehead 8th grade
The Aimless Fingerprint
 North Middle School Colorado Springs

Honorable Mention

Lauren Zawacki 8th grade
Wash Those Hands
 North Middle School Colorado Springs

**Senior Division
 Medicine & Health**

First Place

Lawrence Zhang 10th grade
miRNA 205: Suppressing Inpp4b and Wnt5a Expression
 Fairview High School Boulder

Second Place

Rahul Shankar 12th grade
Assembling a Dextran-Based Nanoparticle Platform for Uptake by Cancerous Cells
 Rampart High School Colorado Springs

Third Place

Cody Mattern 12th grade
 Brett Reinke 11th grade
 Jay Rosenfield 12th grade
Quantifying Postural Sway of Simulated Pre & Post Traumatic Brain Injury Trials
 Warren Tech North Arvada

Fourth Place

Apurva Subramanian 10th grade
Does the TAST2R38 Gene Affect Body Fat Composition?
 Cherry Creek High School Greenwood Village

Honorable Mention

Austin Reed 11th grade
Time Course of Doxorubicin Accumulation in Cardiovascular Tissue
 Wray High School Wray

Honorable Mention

Nicolette Laird 12th grade
The Role of the miR-106b-25 miRNAs in Predicting Breast Cancer Outcomes in Differential Subtypes
 Monarch High School Louisville

Honorable Mention

Jenna Hartley 9th grade
Engineering a Novel Inhibitor for Encapsulated Pathogens
 Palmer High School Colorado Springs

**Junior Division
 Microbiology**

First Place

Seth Young 7th grade
Microbe Blaster for a Crude Oil Disaster
 The Classical Academy Colorado Springs

Second Place

Kelsey Lindbloom 8th grade
Fueling the Future
 Salida Middle School Salida

Third Place

Lauren Soehner 8th grade
Isolation of Propionibacterium acnes
 Buchanan Middle School Wray

Fourth Place

Courtney Haag 7th grade
 Jewell Humphrey 7th grade
Do Cooking Methods Prevent Bacteria Growth on Different Meat Types?
 Cherry Creek Challenge School Denver

Honorable Mention

Madison McDonald 6th grade
How Does Temperature Affect Bacterial Growth in a Plastic Water Bottle?
 Blevins Middle School Fort Collins

Honorable Mention

Gabriella Lopez 7th grade
 Jinny Lehr 7th grade
Have You Cleaned Your Cucumis melo reticulatus?
 La Veta Middle School La Veta

**Senior Division
 Microbiology**

First Place

Kelli Lynch 12th grade
Irradiation Extermination Part 3: A Portable System to Eliminate Waterborne Microorganisms
 Rocky Mountain High School Fort Collins

Second Place

Genysie Van Duren 11th grade
The Effect of pH on the Efficiency of Transformation
 Fleming High School Fleming

Third Place

Darian Wilson 9th grade
The Effect of Fasudil on the Metastasis of Saccharomyces cerevisiae
 Sterling High School Sterling

Fourth Place

Monica Gaitonde 11th grade
The Effect of Sodium Bicarbonate and Hydrogen Peroxide on the Growth of Streptococcus Mutans
 Lamar High School Lamar

**Junior Division
Physics**

First Place

Alex Roerty 8th grade
It's Not a Catapult!
Preston Middle School Fort Collins

Second Place

Elya Courtney 8th grade
*Is the Drag Force on a Supersonic Projectile
Proportional to Air Density?*
Monument Academy Monument

Third Place

Ilse Meiler 8th grade
*Splat! An Investigation into the Splatter Patterns of
Newtonian and Non-Newtonian Fluids*
Peak to Peak Charter School Lafayette

Fourth Place

Ali Betsch 7th grade
Racer Ready?
The Classical Academy Colorado Springs

Honorable Mention

Marika Basagoitia 8th grade
Brush Buster or Brush Busted?
Sargent Junior High School Monte Vista

Honorable Mention

David Parr, Jr. 6th grade
Soundproofing for the Musician
St. Columba Catholic School Durango

Honorable Mention

Heather Graham 6th grade
Screws vs. Nails: The Practical Test
Genoa-Hugo School Hugo

Honorable Mention

Nathan George 6th grade
Perpetual Motion: Fact or Fiction?
Walsh Elementary School Walsh

**Senior Division
Physics**

First Place

Ya'el Courtney 10th grade
*Does Ambient Air Pressure Affect Rocket Motor
Performance?*
Lewis Palmer High School Monument

Second Place

Jacob Nichols 10th grade
An Investigation of the Washboard Road Phenomenon
Brush High School Brush

Third Place

Victoria Milano 12th grade
*The Phenomenon of Oscillons in Vertically Vibrated
Granular Material*
Brush High School Brush

Fourth Place

Casey Huz 10th grade
Film Canister Cannon
Pioneer Christian School Rocky Ford

Honorable Mention

Genesis Villa 9th grade
Jasmine Garcia 9th grade
*Infrared Radiation vs. Thermal Conduction for Hair
Permanence to Reduce Pili Damage*
Center High School Center

**Junior Division
Plant Sciences**

First Place

Alison Henry 7th grade
This Is Your Bean. This Is Your Bean on Drugs
The Classical Academy Colorado Springs

Second Place

Misha Kummel 6th grade
*Field Parameterization of a Model for Secondary Forest
Succession by Shade Tolerance*
North Middle School Colorado Springs

Third Place

Alexander Crane 8th grade
Better Lawn Care?
St. John the Evangelist Catholic School Loveland

Fourth Place

Cortnie Hunter 7th grade
*Stablization or Poison: The Effects of Soil Stabilizer on
Plant Germination*
Monte Vista Middle School Monte Vista

Honorable Mention

Alexandra Tompkins 7th grade
Is the Grass Greener?
Boulder Country Day School Boulder

Honorable Mention

Talor Saffer 7th grade
Too Much of a Good Thing?
Arriba-Flagler School Flagler

Honorable Mention

Madison Thompson 8th grade
*The Effects of Sequestering Carbon Dioxide onto C3,
C4, and CAM Plants*
Otis Jr/Sr High School Otis

**Senior Division
Plant Sciences**

First Place

Samantha Chin 11th grade
*Effects of Cogongrass (Imperata cylindrica) Extracts on
the Growth of Mature Winter Wheatgrass*
Peak to Peak Charter School

Second Place

Elizabeth Hoffner 10th grade
Is There Strength in Numbers?
Home School Center

Third Place

Neal Hiser 9th grade
*Effect of Allelochemicals on the Growth of Western
Wheat Grass*
Basalt High School Basalt

Fourth Place

Evan Waters 9th grade
How Much Is Too Much?
Springfield High School Springfield

Honorable Mention

Davis Lange 9th grade
A Cell Plant Regeneration
Cherry Creek High School Denver

2012 Colorado Science and Engineering Fair

Special Awards Press Release

Colorado Science and Engineering Fair

Ralph Desch Memorial Technical Writing Award

Rahul Shankar 12th grade
 \$100, certificate
 Rampart High School Colorado Springs
Assembling a Dextran-Based Nanoparticle Platform for Uptake by Cancerous Cells

Poster Art Contest

Alison Weinberger 8th grade
 \$100, certificate
 Cherry Creek Challenge School Denver

Student Choice Award

Mitchell Fosdick 7th grade
 \$100, certificate, trophy
 Fowler Junior High School
Hydrogen: The Clean Energy of Today

Easton LaChappelle 10th grade
 \$100, certificate, trophy
 Mancos High School
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis

Pioneers of Science - Edward Teller

Josie Sitton 6th grade
 \$30, certificate
 Cortez Middle School Cortez
Time and Temperature of Wood

Pioneers of Science Edwin Hubble

Zander Graham 7th grade
 \$30, certificate
 Quest Academy Dacono
Spectroscopy

Pioneers of Science - Georges Cuvier

Sean Flatten 7th grade
 \$30, certificate
 Centennial Middle School Montrose
Mice, Mazes, and Music!

Pioneers of Science - Grace Hopper

Avi Swartz 7th grade
 \$30, certificate
 Cherry Creek Challenge School Denver
One Out of 400 Choose 100

Pioneers of Science - Greene Black

Nicole Whitehead 8th grade
 \$30, certificate
 North Middle School Colorado Springs
The Aimless Fingerprint

Pioneers of Science - James Joule

Luke Tyler 6th grade
 \$30, certificate
 Eagle County Charter Academy Edwards
Spin to Win

Pioneers of Science - John Salk

Michael Stankiewicz 6th grade
 \$30, certificate
 Cesar Chavez Academy Pueblo
5 Second Rule: Fact or Fiction

Pioneers of Science - Louis Pasteur

Julia Ludwig 8th grade
 \$30, certificate
 Lamar Middle School Lamar
The Effect of Disinfectants on the Eradication of a Biofilm

Pioneers of Science - Luther Burbank

Thomas McCarthy 7th grade
 \$30, certificate
 West Jefferson Middle School Conifer
Vertiginous Vegetables: A Study of How Gravity Affects Root Development

Pioneers of Science - Margaret Mead

Journey Simmons 8th grade
 \$30, certificate
 Stanley British Primary School Denver
Buenas Noches! The Scientific Study of Conscious vs. Unconscious Learning of Spanish Vocabulary

Pioneers of Science - Marie Curie

Zach Wilson 6th grade
 \$30, certificate
 Walsh Elementary School Walsh
Tip of the Iceberg: Lowering the Melting Point of Water

Pioneers of Science - Max Planck

Marika Basagoitia 8th grade
 \$30, certificate
 Sargent Junior High School Monte Vista
Brush Buster or Brush Busted?

Pioneers of Science - Nicola Tesla

Roger Nakagawa 6th grade
 \$30, certificate
 Hill Campus of Arts and Sciences Denver
The Effect of Dimple Size on How Golf Balls Roll

Pioneers of Science - Rachel Carson

Sierra Kelly 6th grade
 \$30, certificate
 Miller Middle School Durango
Black Roof, White Roof, Which One Is the Right Roof?

Pioneers of Science - Rosalie Edge

Rebecca Erickson 7th grade
\$30, certificate
Blevins Middle School Fort Collins
Got Oil?

Pioneers of Science - Sigmund Freud

Bethany Levy 8th grade
\$30, certificate
Cortez Middle School Cortez
Operation Meditation

Military

United States Air Force

Air Force ROTC Award

Zander Graham 7th grade
certificate, victory sport bag, sonic sound speaker, junior tech
organizer
Quest Academy Dacono
Spectroscopy

Katherine Younglove 8th grade
certificate, victory sport bag, sonic sound speaker, junior tech
organizer
Summit Middle School Boulder
*Using Mirrors to Increase the Power Obtained by Solar PV
Cells*

Eric Lyne 9th grade
certificate, victory sport bag, sonic sound speaker, junior tech
organizer
Brush High School Brush
Boosting Solar-Collector Efficiency with a Fresnel Lens

Easton LaChappelle 10th grade
certificate, victory sport bag, sonic sound speaker, junior tech
organizer
Mancos High School Mancos
*Fine Motor Skills Using EEG Technology and Biomechanical
Prosthesis*

United States Army

US Army Research Laboratory Award

Cody Mattern 12th grade
Brett Reinke 11th grade
Jay Rosenfield 12th grade
certificate, \$50 US savings bond
Warren Tech North Arvada
*Quantifying Postural Sway of Simulated Pre & Post Traumatic
Brain Injury Trials*

Boyu Wang 12th grade
Yichen (Astron) Liu 12th grade
Stephan Liu 11th grade
certificate, \$50 US savings bond
Lakewood High School Lakewood
*Self-Sustained Desalination in Combination with Wastewater
Treatment – Hybrid Microbial Desalination*

Rebecca Kraxberger 9th grade
certificate, \$50 US savings bond
Genoa-Hugo School Hugo
*Electrolytes vs. Different Drink: Water, Sports Drinks, or Fruit
Juice*

Desarae Cruz 9th grade
certificate, \$50 US savings bond
Dolores Huerta Preparatory High Pueblo
Age vs. Reaction Time

Easton LaChappelle 10th grade
certificate, \$100 US savings bond, silver medallion
Mancos High School Mancos
*Fine Motor Skills Using EEG Technology and Biomechanical
Prosthesis*

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

Peter Shearon 7th grade
certificate
The Classical Academy Colorado Springs
Program and Play

Mitchell Fosdick 7th grade
certificate
Fowler Junior High School Fowler
Hydrogen: The Clean Energy of Today

Aleesa Muir 8th grade
certificate
The Classical Academy Colorado Springs
*Analyzing the Effects of Dietary Supplement Consumption on
Probiotic Growth*

Joshua Courtney 6th grade
certificate
Monument Academy Monument
*Condition Indexes of Fish as Bioindicators One Year After the
Deepwater Horizon Oil Spill*

Rahul Shankar 12th grade
certificate, \$75 gift certificate
Rampart High School Colorado Springs
*Assembling a Dextran-Based Nanoparticle Platform for
Uptake by Cancerous Cells*

Taylor Rocha 10th grade
certificate, \$75 gift certificate
Monte Vista High School Monte Vista
*Macroinvertebrate and Nutrient Response to Stream Water
Quality After a Wildfire on Medano Creek*

Sydney Matteson 9th grade
certificate, \$75 gift certificate
Palmer High School Colorado Springs
*How Well Is Your Well: The Effect of Hydrofracking Fluids on
a Eukariotic Species*

Organizational

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

Michael Seltzer 11th grade
\$50 (to be mailed)
Fairview High School Boulder
An Inexpensive Method for Estimating Particle Pollution

Taylor Rocha 10th grade
\$50 (to be mailed)
Monte Vista High School Monte Vista
*Macroinvertebrate and Nutrient Response to Stream Water
Quality After a Wildfire on Medano Creek*

Kelli Lynch 12th grade
\$50 (to be mailed)
Rocky Mountain High School Fort Collins
*Irradiation Extermination Part 3: A Portable System to
Eliminate Waterborne Microorganisms*

Kelsey Kimberling 7th grade
\$50 (to be mailed)
Sargent Junior High School Monte Vista
Dust Away

Alexandra Famiglietti 8th grade
\$50 (to be mailed)
Cherry Creek Challenge School Denver
*Dissolving History: The Effects of Acid Rain on Marble and
Other Building Materials*

American Chemical Society Colorado Local Section

Tucker Shrout 8th grade
Vincente Ozzello 8th grade
certificate, \$100
La Veta Middle School La Veta
Neutralizing pH

Gerri Roberts 11th grade
Hannah West 11th grade
certificate, \$100
Poudre High School Fort Collins
Green Processing of Fatty Acids for Fuel Production

American Institute of Chemical Engineers Rocky Mountain Section

Grace Romer 8th grade
\$75
Stanley British Primary School Denver
Searching for Clarity: Drop by Drop

Emma Cooney 8th grade
\$100
Summit Middle School Boulder
Removing Copper with Fruit Peels and Seaweed

Aniruddh Prakash 11th grade
\$75
Fairview High School Boulder
*Effect of Defects on Selectivity Parameters of SAPO-34 Zeolite
Membranes*

Boyuan Wang 12th grade
Yichen (Astron) Liu 12th grade
Stephan Liu 11th grade
\$100
Lakewood High School Lakewood
*Self-Sustained Desalination in Combination with Wastewater
Treatment – Hybrid Microbial Desalination*

American Meteorological Society Denver/Boulder Chapter

Alexandra Famiglietti 8th grade
certificate, \$50 in weather related items
Cherry Creek Challenge School Denver
*Dissolving History: The Effects of Acid Rain on Marble and
Other Building Materials*

Emma Frantz 9th grade
certificate, \$50 in weather related items
Palmer High School Colorado Springs
*The Effect of the Sun on Cloud Formation and the Earth's
Climate*

American Public Power Association DEED Energy & Efficiency Innovation Award

Katherine Younglove 8th grade
\$50
Summit Middle School Boulder
*Using Mirrors to Increase the Power Obtained by Solar PV
Cells*

Noah Westfall 10th grade
\$75
Cherry Creek High School Greenwood Village
Heat Transfer from Biomass II

DEED Environmental Innovation Award

Rahul Ramesh 7th grade
\$50
Cherry Creek Challenge School Denver
Got Fuel?

Sara Volz 11th grade
\$75
Cheyenne Mountain High School Colorado Springs
*Optimizing Algae Biofuels Artificial Selection & Nitrogen
Stress as Methods to Induce Lipid Synthesis*

American Statistical Association, Colorado/Wyoming Chapter David Young Memorial Award

Jubilee St. Louis 7th grade
letter of acknowledgement
The Classical Academy Colorado Springs
I'm Running It!

Lauren Lang 8th grade
\$150, student membership in the American Statistical
Association, acknowledgement at the chapter spring meeting
and on chapter web site
Peak to Peak Charter School Lafayette
Very Handy

Nurul MohdReza 10th grade
\$150, student membership in the American Statistical
Association, acknowledgement at the chapter spring meeting
and on chapter web site
Union Colony School Greeley
The Study of Soil Remediation on Soil Respiration

**American Vacuum Society
Rocky Mountain Chapter**

Elya Courtney 8th grade
\$50, \$50 for adult sponsor
Monument Academy Monument
Is the Drag Force on a Supersonic Projectile Proportional to Air Density?

Nicholas Finan 8th grade
\$100, \$100 for adult sponsor
Peak to Peak Charter School Lafayette
Sticky Water: Intermolecular Attraction

Emma Frantz 9th grade
\$50, \$50 for adult sponsor
Palmer High School Colorado Springs
The Effect of the Sun on Cloud Formation and the Earth's Climate

Ya'el Courtney 10th grade
\$100, \$100 for adult sponsor
Lewis Palmer High School Monument
Does Ambient Air Pressure Affect Rocket Motor Performance?

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

Shelly Steinert 8th grade
certificate, \$200
Sargent Junior High School Monte Vista
Snow to Water . . . A Long Way to Go!

Grace Romer 8th grade
certificate, \$400
Stanley British Primary School Denver
Searching for Clarity: Drop by Drop

Leslie Seitz 9th grade
certificate, \$200
Fairview High School Boulder
Running Dry? Developing an Intuitive Water Planning Interface

Kelli Lynch 12th grade
certificate, \$400
Rocky Mountain High School Fort Collins
Irradiation Extermination Part 3: A Portable System to Eliminate Waterborne Microorganisms

**ASM International
Best Materials Related Award**

Courtney Ensz 10th grade
\$100
Arriba-Flagler School Flagler
Preventing Iron Oxidation Corrosion in the Maritime Industry

Leighton Burt 7th grade
\$150
Sargent Junior High School Monte Vista
Elastic, Plastic, or Bust: Investigating Yield Strength of Butyl Rubber Inner Tubes

**Association for Women Geoscientists
Larimide Chapter**

Alexandra Famiglietti 8th grade
\$80, 2012 achievement medal
Cherry Creek Challenge School Denver
Dissolving History: The Effects of Acid Rain on Marble and Other Building Materials

Johanna Phillips 12th grade
\$80, 2012 achievement medal
Monte Vista High School Monte Vista
Water In, Water Out: Using a Water Balance Model To Estimate Net Consumptive Availability

Colorado Association of Meat Processors

Monica Gaitonde 11th grade
certificate, \$60
Lamar High School Lamar
The Effect of Sodium Bicarbonate and Hydrogen Peroxide on the Growth of Streptococcus Mutans

**Colorado Association of Science Teachers
CAST Award**

Rebecca Bloomfield 7th grade
\$75
North Middle School Colorado Springs
Hit Me with Your Best (Lead) Shot: Lead Contamination on Rampart Shooting Range

Lenka Duskocil 7th grade
\$75
Bayfield Middle School Bayfield
Bean Plants in Biochar

Rahul Shankar 12th grade
\$75
Rampart High School Colorado Springs
Assembling a Dextran-Based Nanoparticle Platform for Uptake by Cancerous Cells

Taylor Rocha 10th grade
\$75
Monte Vista High School Monte Vista
Macroinvertebrate and Nutrient Response to Stream Water Quality After a Wildfire on Medano Creek

Gerald Gromko Memorial Award

Easton LaChappelle 10th grade
\$150, certificate
Mancos High School Mancos
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis

Colorado Biology Teachers' Association

Misha Kummel 6th grade
certificate, \$75
North Middle School Colorado Springs
Field Parameterization of a Model for Secondary Forest Succession by Shade Tolerance

Samantha Chin 11th grade
certificate, \$75
Peak to Peak Charter School
*Effects of Cogongrass (Imperata cylindrica) Extracts on the
Growth of Mature Winter Wheatgrass*

Colorado Chemistry Teachers' Association

Marlo Masters 7th grade
\$50, certificate
The Classical Academy Colorado Springs
My Mom Was Robbed!!
Gerri Roberts 11th grade
Hannah West 11th grade
\$100, certificate
Poudre High School Fort Collins
Green Processing of Fatty Acids for Fuel Production

Colorado Dental Association

Julia Ludwig 8th grade
\$50
Lamar Middle School Lamar
The Effect of Disinfectants on the Eradication of a Biofilm
Alyssah Ewing 6th grade
\$100
Genoa-Hugo School Hugo
Toothpaste
Olivia Sayer 11th grade
\$50
Warren Tech Center Lakewood
*Nicotine and Cancer: The Effects of Nicotine on Carcinoma
Cell Proliferation*
Monica Gaitonde 11th grade
\$100
Lamar High School Lamar
*The Effect of Sodium Bicarbonate and Hydrogen Peroxide on
the Growth of Streptococcus Mutans*

Colorado Division of Reclamation Mining and Safety

Outstanding Earth Science Award

Emma Cooney 8th grade
\$75
Summit Middle School Boulder
Removing Copper with Fruit Peels and Seaweed
Tayler Rocha 10th grade
\$75
Monte Vista High School Monte Vista
*Macroinvertebrate and Nutrient Response to Stream Water
Quality After a Wildfire on Medano Creek*

Colorado Environmental Health Association

Courtney Haag 7th grade
Jewell Humphrey 7th grade
certificate, \$100
Cherry Creek Challenge School Denver
*Do Cooking Methods Prevent Bacteria Growth on Different
Meat Types?*

Michael Seltzer 11th grade
certificate, \$150, invitation to exhibit at the CEHA Annual
educational Conference (\$400 value)
Fairview High School Boulder
An Inexpensive Method for Estimating Particle Pollution

Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Madison Thompson 8th grade
certificate, \$50
Otis Jr/Sr High School Otis
*The Effects of Sequestering Carbon Dioxide onto C3, C4, and
CAM Plants*
Madison Olver 7th grade
certificate, \$50
Blevins Middle School Fort Collins
Hay! How's Your Dust, Mold, and Nutritional Value?
Teisha Coffield 9th grade
certificate, \$50
Lone Star High School Otis
*Chemotaxis in Physarum polycephalum: A Model for the
Effects of Antioxidants on Cancer Progression*
Nurul MohdReza 10th grade
certificate, \$50
Union Colony School Greeley
The Study of Soil Remediation on Soil Respiration

Colorado Geographic Alliance

Application of Geography Award

Chris Alleman 8th grade
\$100
Kinard Middle School Fort Collins
What's Up with the Poudre?
Isabella Soehn 11th grade
\$100
Boulder High School Boulder
*A Wind Field Study Comparing Five Automatic Weather
Stations on the Antarctic Ross Ice Shelf*

Colorado Medical Society

Alison Weinberger 8th 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
Cherry Creek Challenge School Denver
*Is Homeopathy More Than the Placebo? The Effect of
Homeopathic Arnica Montana on Fruit Flies*
Jenna Hartley 9th 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
Palmer High School Colorado Springs
Engineering a Novel Inhibitor for Encapsulated Pathogens

Colorado Mineral Society

Andrew Miller 8th grade
certificate, \$25, 2 mineral specimens, book
Our Lady of Fatima Catholic Lakewood
Rock and Sediment Properties and Water Flow

Alexandra Famiglietti 8th grade
certificate, \$40, 2 mineral specimens, book
Cherry Creek Challenge School Denver
Dissolving History: The Effects of Acid Rain on Marble and Other Building Materials

Johanna Phillips 12th grade
certificate, \$25, 2 mineral specimens, book
Monte Vista High School Monte Vista
Water In, Water Out: Using a Water Balance Model To Estimate Net Consumptive Availability

Brisha Wakasugi 11th grade
certificate, \$40, 2 mineral specimens, book
Sierra Grande Jr/Sr High School Blanca
Kerber Creek Restoration Using Phytoremediation III: Prioritizing Clean-up Areas

Colorado Mycological Society

Devon Enke 10th grade
\$50, Vera Evenson' book, society honorary membership certificate
La Veta Jr/Sr High School La Veta
Mycoremediation: Using Pleurotus ostreatus Mycelium to Remove Petroleum Hydrocarbons from Freshwater and Saltwater Environments

Colorado Scientific Society

Alexandra Famiglietti 8th grade
\$50
Cherry Creek Challenge School Denver
Dissolving History: The Effects of Acid Rain on Marble and Other Building Materials

Joshua Courtney 6th grade
\$75
Monument Academy Monument
Condition Indexes of Fish as Bioindicators One Year After the Deepwater Horizon Oil Spill

Brisha Wakasugi 11th grade
\$75
Sierra Grande Jr/Sr High School Blanca
Kerber Creek Restoration Using Phytoremediation III: Prioritizing Clean-up Areas

Sydney Matteson 9th grade
\$100
Palmer High School Colorado Springs
How Well Is Your Well: The Effect of Hydrofracking Fluids on a Eukariotic Species

Colorado State University

Clean Energy Supercluster

Clean Energy Achievement Award

Sara Volz 11th grade
certificate, invitation to present research at the annual Cenergy Expo, April 18, 2012 at Colorado State University (travel expenses reimbursed up to \$500)
Cheyenne Mountain High School Colorado Springs
Optimizing Algae Biofuels: Artificial Selection & Nitrogen Stress as Methods to Induce Lipid Synthesis

Colorado State University

College of Agricultural Sciences

Innovations in the Science of Agriculture Award

Teisha Coffield 9th grade
Lone Star High School Otis
Chemotaxis in Physarum polycephalum: A Model for the Effects of Antioxidants on Cancer Progression

Colorado State University

Dept. of Biochemistry & Molecular Biology

Lawrence Zhang 10th grade
certificate, \$100
Fairview High School Boulder
miRNA 205: Suppressing Inpp4b and Wnt5a Expression

Colorado State University

Department of Chemistry

Karli Buchanan 7th grade
certificate, \$100
Buchanan Middle School Wray
Kitchen Chemistry 101: Fluffy Pancakes

Aniruddh Prakash 11th grade
certificate, \$100
Fairview High School Boulder
Effect of Defects on Selectivity Parameters of SAPO-34 Zeolite Membranes

Colorado State University

Dept. of Horticulture & Landscape Architecture

Alison Henry 7th grade
\$100
The Classical Academy Colorado Springs
This Is Your Bean. This Is Your Bean on Drugs.

Alexandra Tompkins 7th grade
\$100
Boulder Country Day School Boulder
Is the Grass Greener?

Elizabeth Hoffner 10th grade
\$100
Home School Center
Is There Strength in Numbers?

Samantha Chin 11th grade
\$100
Peak to Peak Charter School
Effects of Cogongrass (Imperata cylindrica) Extracts on the Growth of Mature Winter Wheatgrass

Colorado Veterinary Medical Association

Kaitlyn Carson 7th grade
certificate, \$50 from CVMA, \$50 from CVMA Auxiliary
Preston Middle School Fort Collins
iVet vs. Evo

Beth Lenz 11th grade
certificate, \$50 from CVMA, \$50 from CVMA Auxiliary
Wray High School Wray
Calving Under Pressure

Colorado-Wyoming Society of American Foresters

Miah Pitcher 8th grade
\$100 savings bond
Paogsa Springs Middle School Pagosa Springs
Challenging the Lorax: A Study of Forest Health After Biomass Harvesting

Clark Cranfill 12th grade
\$100 savings bond
Sargent High School Monte Vista
Thicker Phloem = Funeral Home

Misha Kummel 6th grade
\$100 savings bond
North Middle School Colorado Springs
Field Parameterization of a Model for Secondary Forest Succession by Shade Tolerance

Comstock Family

Heather Comstock Memorial Award

Jenna Hartley 9th grade
certificate, \$200
Palmer High School Colorado Springs
Engineering a Novel Inhibitor for Encapsulated Pathogens

Eppler Family

Katherine Younglove 8th grade
microprocessor kit & digital multimeter (\$100 value)
Summit Middle School Boulder
Using Mirrors to Increase the Power Obtained by Solar PV Cells

Cedric Camacho 8th grade
microprocessor kit & digital multimeter (\$100 value)
Edison Middle School Yoder
Eco Friendly Robot Car

Fort Collins Conservation District

Shelly Steinert 8th grade
\$50, plaque
Sargent Junior High School Monte Vista
Snow to Water . . . A Long Way to Go!

Johanna Phillips 12th grade
\$50, plaque
Monte Vista High School Monte Vista
Water In, Water Out: Using a Water Balance Model To Estimate Net Consumptive Availability

Frank Armbruster Foundation

Charles Armbruster Memorial Award

Christopher Van Lieu 8th grade
\$100
Kinard Middle School Fort Collins
Blown Away

Hands & Minds, Inc.

Anatomy in Clay Award

Cody Mattern 12th grade
Brett Reinke 11th grade
Jay Rosenfield 12th grade
Student Maniken model by Anatomy in Clay Learning System (\$250 value)
Warren Tech North Arvada
Quantifying Postural Sway of Simulated Pre & Post Traumatic Brain Injury Trials

Human Factors and Ergonomics Society

Rocky Mountain Chapter

Nathan Frantz 12th grade
\$100
Fleming High School Fleming
On the Road: From Dual Disability to Independence

Institute of Electrical and Electronics Engineers

High Plans Section

Clint Sexton 8th grade
\$100
Blevins Middle School Fort Collins
Wiismart
Easton LaChappelle 10th grade
\$150
Mancos High School Mancos
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis

Little Shop of Physics

Matthew McCausland Memorial Award

Cedric Camacho 8th grade
\$100
Edison Middle School Yoder
Eco Friendly Robot Car
Emma Frantz 9th grade
\$100
Palmer High School Colorado Springs
The Effect of the Sun on Cloud Formation and the Earth's Climate

Lockheed Martin

Johann Kailey-Steiner 7th grade
\$50
Grant Beacon Middle School Denver
Rocket Design Part 2 - Testing the Effects of Vortex Generators on Drag Coefficient

Wesley Hileman 11th grade
Matthew Hileman 9th grade
\$100
The Classical Academy Colorado Springs
Ion Propulsion: Electrostatic Thruster Design and Optimization for Space Applications

MWH Americas, Inc.
Sustainable Future Award

Rahul Ramesh 7th grade
\$100, plaque
Cherry Creek Challenge School Denver
Got Fuel?

Kelsey Lindbloom 8th grade
\$200, plaque
Salida Middle School Salida
Fueling the Future

Laura Brothers 12th grade
\$100, plaque
Grace Preparatory Academy Durango
The Wind, the Windmill, and the Windcube

Boyu Wang 12th grade
Yichen (Astron) Liu 12th grade
Stephan Liu 11th grade
\$200, plaque
Lakewood High School Lakewood
Self-Sustained Desalination in Combination with Wastewater Treatment – Hybrid Microbial Desalination

National Geophysical Data Center

Ivo Erben 8th grade
\$100 savings bond, certificate, plaque
Summit Middle School Boulder
Hyperborean History

**Optical Society of America
Rocky Mountain Section**

Zander Graham 7th grade
certificate, 1-year subscription to Discover magazine
Quest Academy Dacono
Spectroscopy

Eric Lyne 9th grade
certificate, 1-year subscription to Discover magazine
Brush High School Brush
Boosting Solar-Collector Efficiency with a Fresnel Lens

**Pepperman-Alpert Family
Pepperman-Alpert Memorial Award**

Rahul Shankar 12th grade
\$50
Rampart High School Colorado Springs
Assembling a Dextran-Based Nanoparticle Platform for Uptake by Cancerous Cells

**Rawat Family
Champion of Scientific Innovation Award**

Tiana Linkus 7th grade
\$100 savings bond, \$50 savings bond for teacher
Quest Academy Dacono
Kick It: Kick Angle Effect on Distance

Casey Shaw 7th grade
\$100 savings bond, \$50 savings bond for teacher
Liberty School Joes
The Effect of Trebuchet Design Modifications on Projectile Launch Distance

Rocky Mountain Association of Geologists

Alexandra Famiglietti 8th grade
cash awards TBD
Cherry Creek Challenge School Denver
Dissolving History: The Effects of Acid Rain on Marble and Other Building Materials

Isabella Soehn 11th grade
cash awards TBD
Boulder High School Boulder
A Wind Field Study Comparing Five Automatic Weather Stations on the Antarctic Ross Ice Shelf

SACNAS, Colorado State University Chapter

Rahul Shankar 12th grade
\$50
Rampart High School Colorado Springs
Assembling a Dextran-Based Nanoparticle Platform for Uptake by Cancerous Cells

Samantha Chin 11th grade
\$50
Peak to Peak Charter School
*Effects of Cogongrass (*Imperata cylindrica*) Extracts on the Growth of Mature Winter Wheatgrass*

Cedric Camacho 8th grade
\$50
Edison Middle School Yoder
Eco Friendly Robot Car

Journey Simmons 8th grade
\$50
Stanley British Primary School Denver
Buenas Noches! The Scientific Study of Conscious vs. Unconscious Learning of Spanish Vocabulary

Science Toy Magic, LLC

Keanan Anderson 6th grade
Tate Hinger 6th grade
\$50
Pagosa Springs Middle School Pagosa Springs
What Is the Delta T of a Two Can Stirling Engine?

Nathan Harman 7th grade
 Abby Harman 7th grade
 Jay Armstrong 7th grade
 \$100
 Fort Morgan Middle School Fort Morgan
If Copper Isn't Magnetic, Then Why Does It Affect a Falling Magnet?

Tyler Stratman 11th grade
 \$50
 Brush High School Brush
Polygonal Shapes on a Rotating Fluid Surface

Eric Lyne 9th grade
 \$100
 Brush High School Brush
Boosting Solar-Collector Efficiency with a Fresnel Lens

**Society for Mining, Metallurgy, and Exploration
 Colorado Section**

Andrew Miller 8th grade
 \$100, plaque
 Our Lady of Fatima Catholic Lakewood
Rock and Sediment Properties and Water Flow

Emma Cooney 8th grade
 \$200, plaque
 Summit Middle School Boulder
Removing Copper with Fruit Peels and Seaweed

Brisha Wakasugi 11th grade
 \$200, plaque
 Sierra Grande Jr/Sr High School Blanca
*Kerber Creek Restoration Using Phytoremediation III:
 Prioritizing Clean-up Areas*

**Society of Manufacturing Engineers
 Colorado Chapter 354**

Andy Keller Memorial Award

Diego Ruis 7th grade
 \$100, recognition by chapter 354
 Union Colony Preparatory School Greeley
Human Reactions Under Pressure

Colt Thompson 8th grade
 \$150, recognition by chapter 354
 Cortez Middle School Cortez
Roping Dummy DIY

Easton LaChappelle 10th grade
 \$200, recognition by chapter 354
 Mancos High School Mancos
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis

**Society of Women Engineers
 Rocky Mountain Section**

Katherine Younglove 8th grade
 certificate, \$75
 Summit Middle School Boulder
Using Mirrors to Increase the Power Obtained by Solar PV Cells

Mary Hood 8th grade
 certificate, \$100
 Sargent Junior High School Monte Vista
Doggie's New Playmate

Leslie Seitz 9th grade
 certificate, \$75
 Fairview High School Boulder
Running Dry? Developing an Intuitive Water Planning Interface

Kelli Lynch 12th grade
 certificate, \$100
 Rocky Mountain High School Fort Collins
Irradiation Extermination Part 3: A Portable System to Eliminate Waterborne Microorganisms

**SPIE-The International Society for Optics &
 Photonics**

SPIE Optics & Photonics Award

Zander Graham 7th grade
 \$100
 Quest Academy Dacono
Spectroscopy

Sierra Kelly 6th grade
 \$150
 Miller Middle School Durango
Black Roof, White Roof, Which One Is the Right Roof?

Katherine Younglove 8th grade
 \$250
 Summit Middle School Boulder
Using Mirrors to Increase the Power Obtained by Solar PV Cells

VJ Christophersen 9th grade
 \$100
 Plainview School Sheridan Lake
El Sol - Inexpensive Energy

Eric Lyne 9th grade
 \$150
 Brush High School Brush
Boosting Solar-Collector Efficiency with a Fresnel Lens

Austin Moore 10th grade
 \$250
 Grace Preparatory Academy Durango
Laser Viscometer

The Inventors' Roundtable

Clint Sexton 8th grade
 \$100, free patent search (\$499 value)
 Blevins Middle School Fort Collins
Wiismart

Trout Unlimited

Trout Unlimited River Conservation Award

Leslie Seitz 9th grade
\$50 savings bond, alternate for scholarship to attend Colorado Trout Unlimited's River Conservation and Fly Fishing Youth Camp
Fairview High School Boulder
Running Dry? Developing an Intuitive Water Planning Interface

Taylor Rocha 10th grade
\$100 savings bond, scholarship to attend Colorado Trout Unlimited's River Conservation and Fly Fishing Youth
Monte Vista High School Monte Vista
Macroinvertebrate and Nutrient Response to Stream Water Quality After a Wildfire on Medano Creek

United States Department of Commerce

DOC Excellence in Science and Engineering Award

Johanna Phillips 12th grade
alternate for opportunity for summer employment with Department of Commerce
Monte Vista High School Monte Vista
Water In, Water Out: Using a Water Balance Model To Estimate Net Consumptive Availability

Victoria Milano 12th grade
opportunity for summer employment with Department of Commerce with the possibility for future continuing employment
Brush High School Brush
The Phenomenon of Oscillons in Vertically Vibrated Granular Material

United States Geological Survey

USGS Excellence in Geological or Water Research Award

Emma Cooney 8th grade
reference book, mineral specimen
Summit Middle School Boulder
Removing Copper with Fruit Peels and Seaweed

Sydney Matteson 9th grade
reference book, mineral specimen
Palmer High School Colorado Springs
How Well Is Your Well: The Effect of Hydrofracking Fluids on a Eukariotic Species

University of Colorado, Denver

Medical Scientist Training Program Award

Dorothy Pope 7th grade
\$50
The Classical Academy Colorado Springs
You Say Tomato, I Say To-mah-to!

Jenna Hartley 9th grade
\$50
Palmer High School Colorado Springs
Engineering a Novel Inhibitor for Encapsulated Pathogens

University of Northern Colorado

MAST Institute Award

Stevan Maksimovic 8th grade
\$50
Summit Middle School Boulder
How an Author Affects His or Her Numerical Style of Writing

Jacob Nichols 10th grade
\$50
Brush High School Brush
An Investigation of the Washboard Road Phenomenon

Wojtaszek Family

Paul Wojtaszek Memorial Award

Moeka Nakagawa 11th grade
certificate, \$300
Cherry Creek High School Greenwood Village
Analysis of Expression of Fructose Transporter GLUT5 in Rat Tissues with Regards to Reducing Obesity

Women in Physics

Ilse Meiler 8th grade
\$50
Peak to Peak Charter School Lafayette
Splat! An Investigation into the Splatter Patterns of Newtonian and Non-Newtonian Fluids

Xcel Energy

Environmental Stewardship Award

Cassandra Horton 8th grade
\$50
Quest Academy Dacono
Hydropower vs. Wind Power

Vishal Krishnan 10th grade
\$50
Cherry Creek High School Greenwood Village
Mitigation of Environmental Impacts Caused by Wind Turbines

Innovation in Energy Award

Teegan Hite 8th grade
Kiselya Plewe 8th grade
\$50
Dolores Middle School Dolores
Taking a Stand
Wyatt Goodin 11th grade
\$50
Fairview High School Boulder
Examination of Power Grid Cascading Failure Through Simulation

Yale Science and Engineering Association

Most Outstanding 11th Grade Project Award

Gerri Roberts 11th grade
Hannah West 11th grade
certificate, medallion (to be mailed)
Poudre High School Fort Collins
Green Processing of Fatty Acids for Fuel Production

Scholarships

Adams State College

Adams State College Scholarships

Nicholas Lobato 10th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Center High School Center
*Studying the Effects of Incubation Rates and Water
Temperature on Gila Pandora's Eggs*

Cristina Loranca 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Arickaree School Anton
A la Derecha o a la Izquierda (To the Right or To the Left)

Aniruddh Prakash 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Fairview High School Boulder
*Effect of Defects on Selectivity Parameters of SAPO-34 Zeolite
Membranes*

Anna Kulp 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Center High School Center
*A New Approach to Treating & Remediating Incrusting
Bacterias in Water Supply Wells via $\text{NaHSiO}_3 + 2\text{H}_2\text{O}$*

Eric Lyne 9th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Brush High School Brush
Boosting Solar-Collector Efficiency with a Fresnel Lens

Brett Bostrom 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Brush High School Brush
Automated Irrigation

Devon Enke 10th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
La Veta Jr/Sr High School La Veta
*Mycoremediation: Using *Pleurotus ostreatus* Mycelium to
Remove Petroleum Hydrocarbons from Freshwater and
Saltwater Environments*

Jessica Constant 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Poudre High School Fort Collins
*Computer Modeling V: A Predictive Model of Tracer
Dispersion in the Atmosphere*

Dustin Sanchez 10th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
West Grand High School Kremmling
Walk the Line

Monica Gaitonde 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Lamar High School Lamar
*The Effect of Sodium Bicarbonate and Hydrogen Peroxide on
the Growth of *Streptococcus Mutans**

Casey Huz 10th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Pioneer Christian School Rocky Ford
Film Canister Cannon

Neal Hiser 9th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Basalt High School Basalt
*Effect of Allelochemicals on the Growth of Western Wheat
Grass*

Gerri Roberts 11th grade
Hannah West 11th grade
certificate, one year tuition & fees scholarship to attend ASC
(approximate value \$5,000)
Poudre High School Fort Collins
Green Processing of Fatty Acids for Fuel Production

Colorado School of Mines

Colorado School of Mines Scholarships

Tristan Seawalt 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3
additional years for use towards an undergraduate degree
Cherry Creek High School Greenwood Village
Ethanol on the Household Level

Sara Volz 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3
additional years for use towards an undergraduate degree
Cheyenne Mountain High School Colorado Springs
*Optimizing Algae Biofuels Artificial Selection & Nitrogen
Stress as Methods to Induce Lipid Synthesis*

Brett Bostrom 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3
additional years for use towards an undergraduate degree
Brush High School Brush
Automated Irrigation

Brisha Wakasugi 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3
additional years for use towards an undergraduate degree
Sierra Grande Jr/Sr High School Blanca
*Kerber Creek Restoration Using Phytoremediation III:
Prioritizing Clean-up Areas*

Jessica Constant 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3
additional years for use towards an undergraduate degree
Poudre High School Fort Collins
*Computer Modeling V: A Predictive Model of Tracer
Dispersion in the Atmosphere*

Moeka Nakagawa 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3 additional years for use towards an undergraduate degree
Cherry Creek High School Greenwood Village
Analysis of Expression of Fructose Transporter GLUT5 in Rat Tissues with Regards to Reducing Obesity

Tyler Stratman 11th grade
\$1,000 scholarship to attend CMS, renewable for up to 3 additional years for use towards an undergraduate degree
Brush High School Brush
Polygonal Shapes on a Rotating Fluid Surface

Colorado State University *Colorado State University Scholarship*

Nikki Buhrdorf 12th grade
Vikash Hypio 12th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Hotchkiss High School Hotchkiss
Mytilus edulis Protein Strength: Mussels Have Muscles

Caitlyn Lee 9th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Fairview High School Boulder
Happiness is Associated with a Stronger Belief in the Value of Prosocial Behavior

Gerri Roberts 11th grade
Hannah West 11th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Poudre High School Fort Collins
Green Processing of Fatty Acids for Fuel Production

Johanna Phillips 12th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Monte Vista High School Monte Vista
Water In, Water Out: Using a Water Balance Model To Estimate Net Consumptive Availability

Easton LaChappelle 10th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Mancos High School Mancos
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis

Leslie Seitz 9th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Fairview High School Boulder
Running Dry? Developing an Intuitive Water Planning Interface

Jessica Constant 11th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Poudre High School Fort Collins
Computer Modeling V: A Predictive Model of Tracer Dispersion in the Atmosphere

Lawrence Zhang 10th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Fairview High School Boulder
miRNA 205: Suppressing Inpp4b and Wnt5a Expression

Kelli Lynch 12th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Rocky Mountain High School Fort Collins
Irradiation Extermination Part 3: A Portable System to Eliminate Waterborne Microorganisms

Ya'el Courtney 10th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Lewis Palmer High School Monument
Does Ambient Air Pressure Affect Rocket Motor Performance?

Samantha Chin 11th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Peak to Peak Charter School
Effects of Cogongrass (Imperata cylindrica) Extracts on the Growth of Mature Winter Wheatgrass

Colorado State University **College of Natural Sciences** *College of Natural Sciences Scholarship*

Sara Volz 11th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Cheyenne Mountain High School Colorado Springs
Optimizing Algae Biofuels: Artificial Selection & Nitrogen Stress as Methods to Induce Lipid Synthesis

Lawrence Zhang 10th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Fairview High School Boulder
miRNA 205: Suppressing Inpp4b and Wnt5a Expression

Easton LaChappelle 10th grade
certificate, \$1,000 scholarship to attend CSU-Fort Collins, renewable for up to 3 additional years for use towards an undergraduate degree
Mancos High School Mancos
Fine Motor Skills Using EEG Technology and Biomechanical Prosthesis

Fort Lewis College
Fort Lewis College Scholarships

Sara Volz 11th grade
\$1,500 tuition scholarship to attend Fort Lewis College,
renewable for up to three additional years
Cheyenne Mountain High School Colorado Springs
*Optimizing Algae Biofuels: Artificial Selection & Nitrogen
Stress as Methods to Induce Lipid Synthesis*

Easton LaChappelle 10th grade
\$1,500 tuition scholarship to attend Fort Lewis College,
renewable for up to three additional years
Mancos High School Mancos
*Fine Motor Skills Using EEG Technology and Biomechanical
Prosthesis*

Simon Schaefer 10th grade
\$1,500 tuition scholarship to attend Fort Lewis College,
renewable for up to three additional years
Monte Vista High School Monte Vista
Gravity's Effect on Non-uniform Suspended Chains

Christina Stratton 10th grade
\$1,500 tuition scholarship to attend Fort Lewis College,
renewable for up to three additional years
Arriba-Flagler School Flagler
Can You Burn Trash to Make Clean Energy?

Samantha Chin 11th grade
\$1,500 tuition scholarship to attend Fort Lewis College,
renewable for up to three additional years
Peak to Peak Charter School
*Effects of Cogongrass (Imperata cylindrica) Extracts on the
Growth of Mature Winter Wheatgrass*

Jacob Nichols 10th grade
\$1,500 tuition scholarship to attend Fort Lewis College,
renewable for up to three additional years
Brush High School Brush
An Investigation of the Washboard Road Phenomenon

Intel Foundation
Ryan Patterson Scholarship

Kelli Lynch 12th grade
\$2,000 non renewable scholarship to a school of student's
choice
Rocky Mountain High School Fort Collins
*Irradiation Extermination Part 3: A Portable System to
Eliminate Waterborne Microorganisms*

Lockheed Martin
CSEF Teacher of the Year Award

David Miner
\$3000 grant, plaque
Brush High School Brush

SparkFun Electronics
SparkFun Constructivism Energy Award

David Miner
certificate, scholarship to attend a 2-day Introduction to
Microcontrollers for Educators class (\$300 value)
Brush High School Brush

William Mallory
certificate, scholarship to attend a 1-day Intro to Arduino class
(\$125 value)
Genoa-Hugo School Hugo

Loree' Harvey
certificate, scholarship to attend a 1-day Intro to Arduino class
(\$125 value)
Monte Vista Middle School Monte Vista

Diego Martinez
certificate, scholarship to attend a 1-day Intro to Arduino class
(\$125 value)
Center High School Center

Terri Paulson
certificate, scholarship to attend a 1-day Intro to Arduino class
(\$125 value)
Sargent Jr/Sr High School Monte Vista

SSP

American Psychological Association
Achievement in Psychological Science Award

Savannah Russell 10th grade
Katelan Sinski 9th grade
certificate
North Fork Vision School Paonia
A Study of the Speech and Riding Connection

Broadcom Foundation
Broadcom MASTERS Competition Nomination

Nadja de Sa 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
The Classical Academy Colorado Springs
Sticky Fingers

Callie Matteson 6th grade
Ashley Vitti 6th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
North Middle School Colorado Springs
Just a Minute

Marlo Masters 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
The Classical Academy Colorado Springs
My Mom Was Robbed!!

Alexandra Famiglietti 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Cherry Creek Challenge School Denver
*Dissolving History: The Effects of Acid Rain on Marble and
Other Building Materials*

Evan Savage 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Boulder Country Day School Boulder
Growing Algae for Biodiesel in the Desert

Leighton Burt 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Sargent Junior High School Monte Vista
Elastic, Plastic, or Bust: Investigating Yield Strength of Butyl Rubber Inner Tubes

Joshua Courtney 6th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Monument Academy Monument
Condition Indexes of Fish as Bioindicators One Year After the Deepwater Horizon Oil Spill

Stevan Maksimovic 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Summit Middle School Boulder
How an Author Affects His or Her Numerical Style of Writing

Aleesa Muir 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
The Classical Academy Colorado Springs
Analyzing the Effects of Dietary Supplement Consumption on Probiotic Growth

Seth Young 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
The Classical Academy Colorado Springs
Microbe Blaster for a Crude Oil Disaster

Alex Roerty 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Preston Middle School Fort Collins
It's Not a Catapult!

Alison Henry 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
The Classical Academy Colorado Springs
This Is Your Bean. This Is Your Bean on Drugs.

Madison Olver 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Blevins Middle School Fort Collins
Hay! How's Your Dust, Mold, and Nutritional Value?

Kristina Cavey 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Turner Middle School Berthoud
Secret Savior

Nicholas Finan 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Peak to Peak Charter School Lafayette
Sticky Water: Intermolecular Attraction

Ivo Erben 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Summit Middle School Boulder
Hyperborean History

Keanan Anderson 6th grade
Tate Hinger 6th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Pagosa Springs Middle School Pagosa Springs
What Is the Delta T of a Two Can Stirling Engine?

Johann Kailey-Steiner 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Grant Beacon Middle School Denver
Rocket Design Part 2 - Testing the Effects of Vortex Generators on Drag Coefficient

Rahul Ramesh 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Cherry Creek Challenge School Denver
Got Fuel?

Avi Swartz 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Cherry Creek Challenge School Denver
One Out of 400 Choose 100

Ted Dumont 7th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Estes Park Middle School Estes Park
The Effect of Altitude on Hematocrit

Kelsey Lindbloom 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Salida Middle School Salida
Fueling the Future

Elya Courtney 8th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
Monument Academy Monument
Is the Drag Force on a Supersonic Projectile Proportional to Air Density?

Misha Kummel 6th grade
nomination to compete in the Broadcom Masters competition
for 2012 - entry deadline is June 10th
North Middle School Colorado Springs
Field Parameterization of a Model for Secondary Forest Succession by Shade Tolerance

Intel Corporation

Intel Excellence in Computer Science Award

Jessica Constant 11th grade
certificate, \$200 (to be mailed)
Poudre High School Fort Collins
Computer Modeling V: A Predictive Model of Tracer Dispersion in the Atmosphere

National High School & Two-Year College

Mathematics Honor Society

Mu Alpha Theta Award

Cole Hugelmeyer 11th grade
certificate
Boulder High School Boulder
*Proof That a Circular Hopf Link is a Stationary Point for
Mobius Energy*

National Society of Professional Engineers

Innovative Engineering Award

Easton LaChappelle 10th grade
certificate, lapel pin, entry into National Innovative
Engineering Award competition (\$1,000)
Mancos High School Mancos
*Fine Motor Skills Using EEG Technology and Biomechanical
Prosthesis*

Ricoh Americas Corporation

Ricoh Sustainable Development Award

Noah Westfall 10th grade
certificate
Cherry Creek High School Greenwood Village
Heat Transfer from Biomass II

Society for In Vitro Biology

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

Austin Reed 11th grade
certificate
Wray High School Wray
Does the TAST2R38 Gene Affect Body Fat Composition?

United States Department of Commerce

Taking the Pulse of the Planet Award

Emma Frantz 9th grade
certificate, medallion
Palmer High School Colorado Springs
*The Effect of the Sun on Cloud Formation and the Earth's
Climate*

United States Metric Association

Best Use of the International System of Units Award

Taylor Rocha 10th grade
certificate
Monte Vista High School Monte Vista
*Macroinvertebrate and Nutrient Response to Stream Water
Quality After a Wildfire on Medano Creek*