



Colorado Science and Engineering Fair

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2014 Colorado Science and Engineering Fair Award Winners

Fort Collins, CO (April 11, 2014) – This year’s Colorado Science and Engineering Fair (CSEF) was held April 10 – 12, 2014. 250 projects were on display from students in grades 6 through 12, at the Hilton Fort Collins.

This year’s Grand and Special Awards winners were monumental; in fact, over 400 individual awards were presented at the awards ceremony. Attached is the list of winners.

Four Senior Division CSEF Finalists will be traveling to Los Angeles, CA to compete in the Intel International Science and Engineering Fair in May. They are:

1st Place: Logan Collins from Fairview High School in Boulder for the project *The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics*

2nd Place: Nurul MohdReza from Union Colony Preparatory School in Greeley for the project *Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell*

3rd Place: Matthew Hileman from The Classical Academy in Colorado Springs for the project *Cube Satellites: Miniature Satellite Design and Operations for Pulsed Plasma System Applications*

4th Place: Lawrence Zhang from Fairview High School for the project *Suppression of Malonyl-CoA:ACP Transacylase as a Treatment for Squamous Cell Carcinomas*

The CSEF also presented the Lockheed Martin Teacher of the Year Award to Loree’ Harvey from Monte Vista Middle School in Monte Vista.

Special thanks goes to all of the contributors and sponsors of the 2014 CSEF for their financial and in-kind support of Colorado’s future scientists. This year’s top sponsors (\$2,500 or more) included Bayswater

Exploration & Production, Colorado State University, Intel Foundation, CoBank, Lockheed Martin, US Department of Commerce, Xcel Energy Foundation, Black & Veatch – Building a World of Difference Foundation, Colorado Dental Association, GoDaddy, ICAT Managers, Seagate Technology, Society of Petroleum Engineers, and WaterPik.

For a complete list of all of the 2014 CSEF participants, sponsors, Colorado's Intel ISEF delegates and other CSEF details, please visit the CSEF website at www.csef.colostate.edu.

The Colorado Science and Engineering Fair (CSEF) is an independent, nonprofit corporation. Thanks to the support of generous corporations, foundations, government agencies, and donors who believe in the importance of science education, the CSEF has served Colorado and its students for 59 years.

2014 Colorado Science and Engineering Fair

Grand Awards Press Release

Junior Division Best CSEF Projects

First Place

Casey Shaw 8th grade
Something Fishy - The Effect of Recombinant Bovine Growth Hormone on Bluegill Growth
 Liberty School Joes

Second Place

Liam Young 7th grade
The Bubble Effect: How Nozzle Induced Cavitation Affects Torpedo Operation
 The Classical Academy Colorado Springs

Third Place

Molly Nehring 7th grade
Pondering Paths with Python
 Monte Vista Middle School Monte Vista

Senior Division Best CSEF Projects

First Place

Logan Collins 11th grade
The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics
 Fairview High School Boulder

Second Place

Nurul MohdReza 12th grade
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell
 Union Colony School Greeley

Third Place

Matthew Hileman 10th grade
Cube Satellites: Miniature Satellite Design and Operations for Pulsed Plasma System Applications
 The Classical Academy Colorado Springs

Fourth Place

Lawrence Zhang 12th grade
Suppression of Malonyl-CoA:ACP Transacylase as a Treatment for Squamous Cell Carcinomas
 Fairview High School Boulder

Junior Division Animal Sciences

First Place

Casey Shaw 8th grade
Something Fishy - The Effect of Recombinant Bovine Growth Hormone on Bluegill Growth
 Liberty School Joes

Second Place

Amrita Purkayastha 8th grade
How Weight Affects Canine Hypothyroidism
 Summit Middle School Boulder

Third Place

Haleigh Prosser 8th grade
"C" the Difference: Effects of Vitamin C in Cattle Fed Wet Distillers' Grains Rations
 Wiley Jr/Sr High School Wiley

Fourth Place

Deron Craig 6th grade
Repelling Crickets
 Liberty Middle School Aurora

Honorable Mention

Kyrie Milliron 7th grade
Purple Pinchers Rock to Pop!
 The Classical Academy Colorado Springs

Honorable Mention

Jacob Lowder 8th grade
That's My Jam
 Sargent Junior High School Monte Vista

Senior Division Animal Sciences

First Place

Hannah Niccoli 9th grade
Too Scared To Be Fat: The Effects of Adrenaline on Fat Metabolism
 Fleming High School Fleming

Second Place

Kymbre Mitchell 12th grade
The Effects of Silver Nanoparticles on the Regeneration of Lumbriculus variegatus
 Sterling High School Sterling

Third Place

Amanda Sears 11th grade
The A-MAZE-ing Race
 Wiggins Jr/Sr High School Wiggins

Fourth Place

Apoorva Krishnan 10th grade
The Effects of Dietary Habits and Environmental Conditions on Health Factors in Golden Retrievers
 Cherry Creek High School Greenwood Village

Junior Division Behavioral & Social Sciences

First Place

Caroline Jennings 7th grade
Can You Believe Your Eyes?
The Classical Academy Colorado Springs

Second Place

Amelia Greene 7th grade
Happiness Is . . . An Investigation of Children's Emotional Response to Musical Chords and Varied Images
The Classical Academy Colorado Springs

Third Place

Katie Krueger 8th grade
Color Counts
Peak to Peak Charter School Lafayette

Fourth Place

Claire Shepherd 7th grade
Do Memory Games Affect Kids Memories?
Crest Academy Salida

Honorable Mention

Sophia Contino 8th grade
How "Eye" See It
Windsor Charter Academy Windsor

Honorable Mention

Ben Miller 7th grade
Peer Pressure Today Compared to the 1950's
Genoa-Hugo School Hugo

Senior Division Behavioral & Social Sciences

First Place

Maya Frost-Belansky 10th grade
2D:4D and Perceived Aggression
Fairview High School Boulder

Second Place

Keerti Vajrala 10th grade
Areefa Rahman 10th grade
Linguistic Acumen in Children the Ability to Interpret and Comprehend a Foreign Language
Cherry Creek High School Greenwood Village

Third Place

Sarena Wells 11th grade
Aubrey Wells 9th grade
Learning with Style: Analysis and Testing of Learning Styles with Preschool Children
Fort Morgan High School Fort Morgan

Fourth Place

Samuela Mouzaoir 10th grade
Amy Kim 10th grade
Split Second Decision
Palmer High School Colorado Springs

Honorable Mention

Zack Frongillo 11th grade
Myth Busting, Money Saver, Taste Bud Tester
Warren Tech Central High School Lakewood

Junior Division Chemistry

First Place

Nicole Miller 6th grade
Know the Glow
Ortega Middle School Alamosa

Second Place

Breann Ritter 6th grade
Mysterious Hot Spring Crystal
Monument Academy Monument

Third Place

Finn Stowers 7th grade
Iron in the Hole! : Effects of pH on Iron Oxide Formation in Hydraulic Fracturing
St. Columba Catholic School Durango

Fourth Place

Jordan Matthews 7th grade
Cold Pack Chemistry: The Science of How Ammonium Nitrate Reacts with Water in a Cold
Merino Jr/Sr High School Merino

Honorable Mention

Daniel San Miguel 8th grade
Iceberg in Reverse
Mancos Middle School Mancos

Honorable Mention

Jessica Fiala 7th grade
Copper Cleaning: TKO (Total Knockout)
St. Columba Catholic School Durango

Honorable Mention

Elias Demosthenes 8th grade
Mission Ignition
Stanley British Primary School Denver

Senior Division Chemistry

First Place

Alanna Chacon 12th grade
Quantification of Capsaicin and Dihydrocapsaicin in Various Peppers for Future Medical Investigation
Center High School Center

Second Place

Jaimie Zhu 12th grade
Sugar Synthesis and the Effect of Glycosylation on Chemotaxis
 Fairview High School Boulder

Third Place

Bethany Hibbs 10th grade
Measuring Luminescence in Glow-in-the-Dark Objects
 Pioneer Christian School Rocky Ford

Fourth Place

Casey Knapke 10th grade
How Cool Does It Have To Be To Shed Light on the Crime?
 SkyView Academy Highlands Ranch

Junior Division Earth & Space Sciences

First Place

Chloe Bleak 8th grade
Effect of Wheat Residue Mass & Simulated Precipitation Amount & Frequency on Soil Water Evaporation
 Insight School of Colorado Westminster

Second Place

Stephanie Zhang 8th grade
Should Old McDonald Till His Farm?
 Summit Middle School Boulder

Third Place

Misha Kummel 8th grade
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River
 North Middle School Colorado Springs

Fourth Place

Joe Pope 7th grade
Got Oil? Part II: A Study of Oil Absorption in Sandstone
 St. Columba Catholic School Durango

Honorable Mention

Daniel Arrasmith 7th grade
Counter Color Crisis!
 The Classical Academy Colorado Springs

Senior Division Earth & Space Sciences

First Place

Zachary P. Wilson 12th grade
Analyzing Coronal Holes Using Atmospheric Imaging Assembly on the Solar Dynamics
 Broomfield High School Broomfield

Second Place

Cassidy Plane 9th grade
Burning Erosion
 Sargent High School Monte Vista

Third Place

Jesse Zhang 11th grade
Lunar Tide Contribution to Thermosphere Weather
 Fairview High School Boulder

Fourth Place

Hannah Fischer 9th grade
Wildfire! Understanding the Complexities of the West Fork Complex Fire
 Sierra Grande Jr/Sr High School Blanca

Junior Division Energy & Transportation

First Place

Liam Young 7th grade
The Bubble Effect: How Nozzle Induced Cavitation Affects Torpedo Operation
 The Classical Academy Colorado Springs

Second Place

Brooks Rady 8th grade
Converting Single Cellular Algae into Bio-diesel through Transesterification of Triglycerides and Bio-Gasoline through Aerobic Fermentation, While Using M.U.P.'s
 Prospect Ridge Academy Broomfield

Third Place

Kaybree Keating 7th grade
 Kaitlin Wells 8th grade
From Trash to Gas: Biofuel
 Fort Morgan Middle School Fort Morgan

Fourth Place

Joshua Kim 8th grade
Catching Fire
 Summit Middle School Boulder

Honorable Mention

Alia Kraxberger 7th grade
Wind Turbine Blade Styles vs Voltage Output
 Genoa-Hugo School Hugo

Honorable Mention

Camden Gruchow 7th grade
I'm Dreaming of a Bright Christmas
 West Jefferson Middle School Conifer

Senior Division Energy & Transportation

First Place

Nurul MohdReza 12th grade
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell
 Union Colony School Greeley

Second Place

Trevor Jordan 10th grade
A Wing of the Future
 Grace Preparatory Academy Durango

Third Place

William Poburka 11th grade
 Phillip Zhang 11th grade
 Matthew Correia 11th grade
*Design and Implementation of Vertical Axis Wind
 Turbines for Local Power Generation*
 Rampart High School Colorado Springs

Fourth Place

Michael Brady 12th grade
Effects of Scaling a Microbial Fuel Cell
 Cherry Creek High School Greenwood Village

Honorable Mention

Mitchell Fosdick 9th grade
*Phase II: Identification of Isolates of Algae and Biofuel
 Properties*
 Fowler Jr/Sr High School Fowler

Junior Division Engineering

First Place

Beatriz Kuperus 8th grade
*Oceans of Water to Drink: Improving the Efficiency of a
 Solar Water Still*
 Summit Middle School Boulder

Second Place

Max Warnock 6th grade
Camp Lamp: Designing a Better Headlamp
 Home School Fort Collins

Third Place

Zach Mast 8th grade
Still Waters Run Deep
 The Classical Academy Colorado Springs

Fourth Place

Mark Bloomfield 6th grade
*Spinning My Wheels: Designing an Efficient and Cost
 Effective Bike Wheel*
 Holmes Middle School Colorado Springs

Honorable Mention

Sam Korman 7th grade
Leg Sweepstakes: Stanley vs Klann vs Jansen
 Stanley British Primary School Denver

Honorable Mention

Logan Moore 6th grade
Concrete Cracker!
 Miller Middle School Durango

Honorable Mention

Victoria Dunivan 7th grade
Sensor Arrays
 Walsh Jr/Sr High School Walsh

Honorable Mention

Isabel Dalmer 6th grade
Strong Box, Weak Box
 Liberty Middle School Aurora

Senior Division Engineering

First Place

Matthew Hileman 10th grade
*Cube Satellites: Miniature Satellite Design and
 Operations for Pulsed Plasma System Applications*
 The Classical Academy Colorado Springs

Second Place

Mary Hood 10th grade
*Hit Me with Your Best Shot: An Arduino Controlled
 Training Platform for Child Martial Artists*
 Sargent High School Monte Vista

Third Place

Jacob Hans 9th grade
Robotically Enhanced Autonomous Pet Food
 Sand Creek High School Colorado Springs

Fourth Place

Ben Mickey 12th grade
The Human Airpuck
 Brush High School Brush

Junior Division Environmental Sciences

First Place

Hari Sowrirajan 8th grade
*Soak Up the Sun: Using Nanoparticles to Catalyze Water
 Vaporization*
 Cherry Creek Challenge School Denver

Second Place

Anna Connell 8th grade
From Ashes to Water
 The Classical Academy Colorado Springs

Third Place

Zach L. Wilson 8th grade
*Green Water?: Purification of Feedyard Lagoons With
 Algae*
 Walsh Jr/Sr High School Walsh

Fourth Place

Emily Fitzjohn 8th grade
Mudslide Mayhem
 Quest Academy Dacono

Honorable Mention

Dovvie Knowlton 6th grade
Hard Water: A Dripumentary
 Home School Fowler

Honorable Mention

Mannon Frykholm 8th grade
*Adding Fuel to the Fire: The Impact of Moisture Content
 on Fire Ignition, Heat, and Duration*
 Summit Middle School Boulder

Honorable Mention

Lilly Penalosa	8th grade
Kyndall Hadley	8th grade
<i>How Does Precipitation Affect Creek WQI?</i>	
Cherry Creek Challenge School	Denver

Senior Division Environmental Sciences

First Place

Hope Weinstein	12th grade
<i>Zero Valent Iron Nanoparticle Enhanced Membranes for Water Filtration: Optimizing Casting Parameters for Global Applications</i>	
Fairview High School	Boulder

Second Place

Taylor Rocha	12th grade
<i>A Potential Management Strategy for the Endangered Southwestern Willow Flycatcher: Effects of Early Season Wildfire on Foraging and Nesting Riparian Habitat</i>	
Monte Vista High School	Monte Vista

Third Place

Rachel Rossi	12th grade
<i>Hydraulic Fracturing Fluid Remediation in Water: Exploration of Mycoremediation Capabilities of</i>	
Durango High School	Durango

Fourth Place

Lauren Zawacki	10th grade
<i>Treated vs Natural Water Supplies: Has Our Water Been Compromised?</i>	
Palmer High School	Colorado Springs

Honorable Mention

Daisy Garcia	11th grade
<i>Making Biodegradable Plastic Out of Banana Peels</i>	
Center High School	Center

Honorable Mention

Rahul Ramesh	9th grade
<i>Studying the Impact of Algal and Cyanobacterial Photosynthesis on the Efficiency of a MDFC</i>	
Cherry Creek High School	Greenwood Village

Junior Division Mathematics & Computer Sciences

First Place

Molly Nehring	7th grade
<i>Pondering Paths with Python</i>	
Monte Vista Middle School	Monte Vista

Second Place

Anjalie Kini	7th grade
<i>Experimenting with Cryptographic Algorithms</i>	
Cherry Creek Challenge School	Denver

Third Place

Andrea Lin	8th grade
<i>Generating Value of Pi: Pseudo-Random or True Random?</i>	
Summit Middle School	Boulder

Fourth Place

Aditya Kumar	8th grade
<i>Developing a Speech Recognition Program for Accents</i>	
Cherry Creek Challenge School	Denver

Honorable Mention

Cassandra Blew	7th grade
<i>Amazing Robots 2: Color Code</i>	
La Veta Jr/Sr High School	La Veta

Senior Division Mathematics & Computer Sciences

First Place

Audrey Randall	12th grade
<i>Least Significant Bit Steganography for Covert Audio Data Transmission</i>	
Fairview High School	Boulder

Second Place

Jacob Imola	12th grade
Jordan Crawford	12th grade
<i>A Wheely Hard Problem: Finding a Non-intersecting, Closed Path Tangent to a Given Set of</i>	
Cherry Creek High School	Greenwood Village

Third Place

Stephen Parish	11th grade
<i>Network Response to Intrusion Detection: Probabilistic Methods in Machine Informatics to Secure Multiple Targets</i>	
Home School	Colorado Springs

Fourth Place

Leighton Burt	9th grade
<i>Avoiding the Voids: Investigating Autonomous Rover Mapping Strategies</i>	
Sargent High School	Monte Vista

Junior Division Medicine & Health

First Place

Edwin Bodoni	7th grade
<i>Preventative Listerine vs Oral Bacteria Team</i>	
Cherry Creek Challenge School	Denver

Second Place

Sam Duarte	6th grade
<i>Mind Your Head</i>	
Quest Academy	Dacono

Third Place

Genna Campain	8th grade
Annie Campain	8th grade
<i>Put Your Money Where Your Mouth Is!</i>	
Windsor Charter Academy	Windsor

Fourth Place

Dawson Walraven	7th grade
Keenan Mansker	7th grade
<i>Concussions: Old vs New Football Helmets</i>	
Olathe Middle School	Olathe

Honorable Mention

Andrew Smith-	6th grade
<i>1 Huff 2 Huff</i>	
Monte Vista Middle School	Monte Vista

Honorable Mention

Megan Lewis	7th grade
<i>Does the Five Second Rule Really Work?</i>	
Columbine Middle School	Montrose

Honorable Mention

Cierra Ruybal	8th grade
<i>Amped Up!</i>	
Pueblo School for Arts and Sciences	Pueblo

Honorable Mention

Madison Werschky	7th grade
<i>Got Gluten?</i>	
The Classical Academy	Colorado Springs

Senior Division Medicine & Health

First Place

Lawrence Zhang	12th grade
<i>Suppression of Malonyl-CoA:ACP Transacylase as a Treatment for Squamous Cell Carcinomas</i>	
Fairview High School	Boulder

Second Place

Jonathan Snedeker	11th grade
<i>Are Food Additives Health Subtractive? The Drosophila in the Coal Mine</i>	
Fairview High School	Boulder

Third Place

Alison Weinberger	10th grade
<i>Is Homeopathy More Than a Placebo? Assessing Homeopathic Principles in a Male Fruit Fly Model</i>	
Cherry Creek High School	Greenwood Village

Fourth Place

Roshni Kalkur	11th grade
<i>The Impact of Deuterium Oxide on the Cell Cycle of RBL Cells via Tubulin-mediated Antimitotic Action</i>	
Air Academy High School	Colorado Springs

Honorable Mention

Jenna Dillenburg	11th grade
<i>The Effects of PYY Hormone on the Physiology of Gromphadorhina portentosa</i>	
Sterling High School	Sterling

Junior Division Microbiology

First Place

Maya Duran	8th grade
Sayer Guerrero	8th grade
<i>Outie or Innie?</i>	
Pueblo School for Arts and Sciences	Pueblo

Second Place

Alexa Valenzuela	7th grade
<i>What Kills Our Killers</i>	
The Classical Academy	Colorado Springs

Third Place

Sonoma Carlos	6th grade
<i>The Effects of Natural and Potentially Antibacterial Agents on Streptococcus Pneumoniae in Petri Dishes and in Ovo</i>	
Hill Campus of Arts and Sciences	Denver

Fourth Place

Erin Percy	8th grade
<i>"Hot or Not?" Disinfecting Medical Grade Vinyl Using a Bleach Solution at Different Temperatures</i>	
The Classical Academy	Colorado Springs

Honorable Mention

Alex Amash	8th grade
<i>Chemical Food Preservatives: How Effective Are They At Retarding Bacterial Growth?</i>	
Blevins Middle School	Fort Collins

Senior Division Microbiology

First Place

Logan Collins	11th grade
<i>The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics</i>	
Fairview High School	Boulder

Second Place

Rebecca Bloomfield	9th grade
<i>The Itch to Twitch: The Effects of DNA, DNase, and degraded DNA on Twitching Motility in Acinetobacter baylyi</i>	
Palmer High School	Colorado Springs

Third Place

Kaitlyn Carson	9th grade
<i>Raw Diets: The Good, The Bad, The Deadly</i>	
Windsor High School	Windsor

Fourth Place

Nicole Whitehead 10th grade
Food, The New Antibiotic
 Palmer High School Colorado Springs

Honorable Mention

Taylor Lapp 10th grade
GMOs Effect on E-Coli Growth
 Wray High School Wray

Junior Division Physics**First Place**

Fiona Anderson 8th grade
Liquid Invisibility Cloak
 Summit Middle School Boulder

Second Place

Kalten Mattics 8th grade
Investigating Radioactivity in a Cloud Chamber
 Olathe Middle School Olathe

Third Place

Allison Palmer 7th grade
Rolling Friction
 Frontier Academy Secondary School Greeley

Fourth Place

Zach Haase 8th grade
Thistle Energy
 Eads Middle School Eads

Honorable Mention

Kendrick Castillo 7th grade
Brake Check!
 Notre Dame Catholic School Denver

Honorable Mention

Connor Voss 7th grade
Supercooling
 Beulah School of Natural Sciences Beulah

Senior Division Physics**First Place**

Ellora Bultema 9th grade
Weighting for the Bang: Bullet Mass and Barrel Length Effect on Kinetic Energy and Penetration Depth
 Palmer High School Colorado Springs

Second Place

Merritt Singley 10th grade
Effect of Frequency on Wave Formation in Sugar Water Mixtures of Various Specific Gravities
 Brush High School Brush

Third Place

Sara Lance 12th grade
Confirming Wing in Ground Effect
 Greeley West High School Greeley

Fourth Place

Casey Zhang 10th grade
An Analytical, Numerical, and Experimental Study of Solitons in Optical Fiber
 Fairview High School Boulder

Junior Division Plant Sciences**First Place**

Kyra Leland 8th grade
The Effects of Different Types of Animal Manure on the Growth of Red Kale
 Summit Middle School Boulder

Second Place

Colby Self 8th grade
Do Colorado Plants Need A Gas Mask?
 Monte Vista Middle School Monte Vista

Third Place

Mattie Singley 6th grade
 Nathaniel Miner 7th grade
The Effects of Seed Damage on Maple Samara Dispersal
 Brush Middle School Brush

Fourth Place

Grace Gulig 6th grade
Protecting Poinsettias
 Monument Academy Monument

Honorable Mention

Grace Eisenach 7th grade
Aquaponics
 Bromley East Charter School Brighton

Senior Division Plant Sciences**First Place**

Hinal Rathi 12th grade
Metabolite Profiling of Potato Plants Using GC-MS
 Alamosa High School Alamosa

Second Place

Tara Cook 12th grade
A Study of Pseudomonas putida as a Viable Biofertilizer for Crops in Soils with High Salinity
 Sterling High School Sterling

Third Place

Tucker Shrout 10th grade
 Vinny Ozzello 10th grade
Stabilizing the Quality of Harvested Produce Through the Introduction of Light and Dark Cycles
 La Veta Jr/Sr High School La Veta

Fourth Place

Joel Wagner 9th grade
Hydroponically Grown: Spring Wheat vs Winter Wheat
 Arickaree School Anton

2014 Colorado Science and Engineering Fair

Special Awards Press Release

Teacher

Lockheed Martin

CSEF Teacher of the Year Award

Loree' Harvey	
\$3,000 grant, plaque	
Monte Vista Middle School	Monte Vista

SparkFun Electronics

SparkFun's Thank You to Educators Award

Loree' Harvey	
SparkFun Inventor's Kit (\$99 value)	
Monte Vista Middle School	Monte Vista

Kevin Gonzales	
SparkFun Inventor's Kit (\$99 value)	
Turner Middle School	Berthoud

Angela Golding	
SparkFun Inventor's Kit (\$99 value)	
Edison High School	Yoder

Colorado Science and Engineering Fair

Poster Art Contest

Tayler Rocha	
\$100, certificate	
Monte Vista High School	Monte Vista

Student Choice Award

Kaybree Keating	7th grade
Kaitlin Wells	8th grade
\$100, trophy, certificate	
<i>From Trash to Gas: Biofuel</i>	

Sarena Wells	11th grade
Aubrey Wells	9th grade
\$100, trophy, certificate	
<i>Learning with Style: Analysis and Testing of Learning Styles with Preschool Children</i>	

Ralph Desch Memorial Technical Writing Award

Jaimie Zhu	12th grade
\$100, certificate	
Fairview High School	Boulder
<i>Sugar Synthesis and the Effect of Glycosylation on Chemotaxis</i>	

Pioneers of Science

Albert von Szent-Gyorgyi Award

Haleigh Prosser	8th grade
\$30, certificate	
Wiley Jr/Sr High School	Wiley
<i>"C" the Difference: Effects of Vitamin C in Cattle Fed Wet Distillers' Grains Rations</i>	

Edwin Hubble Award

Chloe Bleak	8th grade
\$30, certificate	
Insight School of Colorado	Westminster
<i>Effect of Wheat Residue Mass & Simulated Precipitation Amount & Frequency on Soil Water Evaporation</i>	

G V Black Award

Alyssah Ewing	7th grade
\$30, certificate	
Genoa-Hugo School	Hugo
<i>Toothpaste Now vs Then</i>	

Grace Hopper Award

Kari Mosier	6th grade
\$30, certificate	
Lamar Middle School	Lamar
<i>Measuring M&M's</i>	

James Joule Award

Dimery Plewe	6th grade
Tessa Porter	6th grade
Alexander Vestal	6th grade
\$30, certificate	
Cortez Middle School	Cortez
<i>"Windmill" in Persian</i>	

Jonas Salk Award

Sonoma Carlos	6th grade
\$30, certificate	
Hill Campus of Arts and Sciences	Denver
<i>The Effects of Natural and Potentially Antibacterial Agents on Streptococcus Pneumoniae in Petri Dishes and in Ovo</i>	

Louis Pastuer Award

Maya Duran	8th grade
Sayer Guerrero	8th grade
\$30, certificate	
Pueblo School for Arts and Sciences	Pueblo
<i>Outie or Innie?</i>	

Luther Burbank Award

Grace Gulig	6th grade
\$30, certificate	
Monument Academy	Monument
<i>Protecting Poinsettias</i>	

Margaret Mead Award

Claire Shepherd	7th grade
\$30, certificate	
Crest Academy	Salida
<i>Do Memory Games Affect Kids Memories?</i>	

Marie Curie Award

Elias Demosthenes	8th grade
\$30, certificate	
Stanley British Primary School	Denver
<i>Mission Ignition</i>	

Max Planck Award

Bryce Kellum	8th grade
\$30, certificate	
Windsor Charter Academy	Windsor
<i>Can Pigs Fly?</i>	

Nicola Tesla Award

Heather Graham 8th grade
\$30, certificate
Genoa-Hugo School Hugo
The Heat Is On

Rachel Carson Award

Remigio Lucero 6th grade
\$30, certificate
Centauri Middle School La Jara
How Needle Cast Affects Snow Melt Rates

Rosalie Edge Award

Amber Medina 7th grade
\$30, certificate
Corwin International Magnet School Pueblo
Measuring the Ozone

Sigmund Freud Award

Shaleese Romero 8th grade
Connor Farnworth 8th grade
\$30, certificate
Pueblo School for Arts and Sciences Pueblo
Genre Genius

William Herschel Award

Nathan Johns 7th grade
\$30, certificate
The Classical Academy Colorado Springs
To Infinity & Beyond!

Military

United States Air Force

Sara Lance 12th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
Greeley West High School Greeley
Confirming Wing in Ground Effect

Trevor Jordan 10th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
Grace Preparatory Academy Durango
A Wing of the Future

Ihana Mazezka 8th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
Cherry Creek Challenge School Denver
Extracting Water on Mars

Zachary P. Wilson 12th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
Broomfield High School Broomfield
*Analyzing Coronal Holes Using Atmospheric Imaging
Assembly on the Solar Dynamics Observatory*

Brycen Kellum 8th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
Windsor Charter Academy Windsor
Can Pigs Fly?

Nathan Jones 7th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
The Classical Academy Colorado Springs
To Infinity and Beyond!

Laura Clark 6th grade
certificate, laptop backback, rotating flash drive, set of
traveling ear buds, 4-port hub
St. Columba Catholic School Durango
Nanotechnology: Engineering Stronger Materials

United States Navy & Marine Corps

Academy of Applied Science & Office of Naval Research Award

Andrea Lin 8th grade
certificate
Summit Middle School Boulder
Generating Value of Pi: Pseudo-Random or True Random?

Amrita Purkayastha 8th grade
certificate
Summit Middle School Boulder
How Weight Affects Canine Hypothyroidism

Daniel Arrasmith 7th grade
certificate
The Classical Academy Colorado Springs
Counter Color Crisis!

Fiona Anderson 8th grade
certificate
Summit Middle School Boulder
Liquid Invisibility Cloak

Hope Weinstein 12th grade
\$75 gift certificate, certificate
Fairview High School Boulder
*Zero Valent Iron Nanoparticle Enhanced Membranes for
Water Filtration: Optimizing Casting Parameters for Global
Applications*

Rebecca Bloomfield 9th grade
\$75 gift certificate, certificate
Palmer High School Colorado Springs
*The Itch to Twitch: The Effects of DNA, DNase, and degraded
DNA on Twitching Motility in Acinetobacter*

Jonathan Snedeker 11th grade
\$75 gift certificate, certificate
Fairview High School Boulder
*Are Food Additives Health Subtractive? The Drosophila in the
Coal Mine*

Organizational

Air & Waste Management Association Rocky Mountain States Section

Kaybree Keating 7th grade
Kaitlin Wells 8th grade
\$200
Fort Morgan Middle School Fort Morgan
From Trash to Gas: Biofuel

Alyssa Rawinski 7th grade
\$100
Monte Vista Middle School Monte Vista
Does Your Soil Have Gas? Can Soil Types Predict Radon Levels?

Lauren Rowan 8th grade
\$100
Blevins Middle School Fort Collins
Radon

Colby Self 8th grade
\$100
Monte Vista Middle School Monte Vista
Do Colorado Plants Need A Gas Mask?

American Association of University Women

AAUW Award for Women in STEM

Daisy Garcia 11th grade
\$200
Center High School Center
Making Biodegradable Plastic Out of Banana Peels

American Chemical Society Colorado Local Section

Nicole Miller 6th grade
\$100, certificate
Ortega Middle School Alamosa
Know the Glow

Bethany Hibbs 10th grade
\$100, certificate
Pioneer Christian School Rocky Ford
Measuring Luminescence in Glow-in-the-Dark Objects

American Institute of Aeronautics and Astronautics, Rocky Mountain Section

Bryce Kellum 8th grade
iPad mini
Windsor Charter Academy Windsor
Can Pigs Fly?

Trevor Jordan 10th grade
iPad mini
Grace Preparatory Academy Durango
A Wing of the Future

American Institute of Chemical Engineers Rocky Mountain Section

Elizabeth Valdez 6th grade
\$75
Ignacio Middle School Ignacio
The More Sugar the Better!!!

Kayla Nasralla 8th grade
\$100
Pagosa Springs Junior High School Pagosa Springs
Solar Desalination

Nurul MohdReza 12th grade
\$75
Union Colony School Greeley
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell

Hope Weinstein 12th grade
\$100
Fairview High School Boulder
Zero Valent Iron Nanoparticle Enhanced Membranes for Water Filtration: Optimizing Casting Parameters for Global Applications

American Meteorological Society Denver/Boulder Chapter

AMS Award for Excellence in Atmospheric Science Research

Rachelle Andreatta 8th grade
weather station, certificate
La Veta Jr/Sr High School La Veta
Predicting the Weather

Jesse Zhang 11th grade
weather station, certificate
Fairview High School Boulder
Lunar Tide Contribution to Thermosphere Weather

American Public Power Association Demonstration of Energy Efficient Developments

DEED Energy & Efficiency Innovation Award

Diego Olaya 8th grade
\$50
Peak to Peak Charter School Lafayette
Eliminating Standby Power

William Poburka 11th grade
Phillip Zhang 11th grade
Matthew Correia 11th grade
\$75

Rampart High School Colorado Springs
Design and Implementation of Vertical Axis Wind Turbines for Local Power Generation

DEED Environmental Innovation Award

Zach Haase 8th grade
\$50
Eads Middle School Eads
Thistle Energy

Nurul MohdReza 12th grade
\$75
Union Colony School Greeley
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell

American Statistical Association Colorado/Wyoming Chapter

David Young Memorial Award

Mark Bloomfield 6th grade
certificate
Holmes Middle School Colorado Springs
Spinning My Wheels: Designing an Efficient and Cost Effective Bike Wheel

Misha Kummel 8th grade
\$150, student membership in the American Statistical Association, acknowledgement at chapter spring meeting and on chapter web site
North Middle School Colorado Springs
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River

Jonathan Snedeker 11th grade
\$150, student membership in the American Statistical Association, acknowledgement at chapter spring meeting and on chapter web site
Fairview High School Boulder
Are Food Additives Health Substractives? The Drosophila in the Coal Mine

American Vacuum Society Rocky Mountain Chapter

Isabel Dalmer 6th grade
\$50, \$50 to sponsor
Liberty Middle School Aurora
Strong Box, Weak Box

Victoria Dunivan 7th grade
\$50, \$50 to sponsor
Walsh Jr/Sr High School Walsh
Sensor Arrays

Fiona Anderson 8th grade
\$100, \$100 to sponsor
Summit Middle School Boulder
Liquid Invisibility Cloak

Matthew Hileman 10th grade
\$50, \$50 to sponsor
The Classical Academy, College Colorado Springs
Cube Satellites: Miniature Satellite Design and Operations for Pulsed Plasma System Applications

Casey Zhang 10th grade
\$100, \$100 to sponsor
Fairview High School Boulder
An Analytical, Numerical, and Experimental Study of Solitons in Optical Fiber

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

Anna Connell 8th grade
\$200
The Classical Academy Colorado Springs
From Ashes to Water

Misha Kummel 8th grade
\$400
North Middle School Colorado Springs
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River

Rachel Rossi 12th grade
\$200
Durango High School Durango
Hydraulic Fracturing Fluid Remediation in Water: Exploration of Mycoremediation Capabilities of Fungi

Hope Weinstein 12th grade
\$400
Fairview High School Boulder
Zero Valent Iron Nanoparticle Enhanced Membranes for Water Filtration: Optimizing Casting Parameters for Global Applications

Anatomy in Clay

Sarena Wells 11th grade
Aubrey Wells 9th grade
Student Maniken(R) model by Anatomy in Clay(R) Learning System (\$250 value)
Fort Morgan High School Fort Morgan
Learning with Style: Analysis and Testing of Learning Styles with Preschool Children

ASM International

ASM Materials Education Foundation Award
Laura Clark 6th grade
\$100
St. Columba Catholic School Durango
Nanotechnology: Engineering Stronger Materials
Daisy Garcia 11th grade
\$150
Center High School Center
Making Biodegradable Plastic Out of Banana Peels

Colorado Association of Meat Processors

Kaitlyn Carson 9th grade
certificate, \$70
Windsor High School Windsor
Raw Diets: The Good, The Bad, The Deadly

Colorado Association of Science Teachers

CAST Award

Nicole Miller 6th grade
\$75
Ortega Middle School Alamosa
Know the Glow

Kendrick Barrett 7th grade
\$75
The Classical Academy Colorado Springs
Oh Chute!

Taylor Rocha 12th grade
\$75
Monte Vista High School Monte Vista
A Potential Management Strategy for the Endangered Southwestern Willow Flycatcher: Effects of Early Season Wildfire on Foraging and Nesting Riparian Habitat

Taylor Lapp 10th grade
\$75
Wray High School Wray
GMOs Effect on E-Coli Growth

Gerald Gromko Memorial Award

Matthew Hileman 10th grade
\$150
The Classical Academy, College Colorado Springs
Cube Satellites: Miniature Satellite Design and Operations for Pulsed Plasma System Applications

Colorado Biology Teachers' Association

CBTA Best Biology Project Award

Amrita Purkayastha 8th grade
certificate, \$75
Summit Middle School Boulder
How Weight Affects Canine Hypothyroidism

Rebecca Bloomfield 9th grade
certificate, \$75
Palmer High School Colorado Springs
The Itch to Twitch: The Effects of DNA, DNase, and degraded DNA on Twitching Motility in Acinetobacter

Colorado BioScience Institute

BioGENEius Challenge Award

Logan Collins 11th grade
all-expense paid trip to compete at the International competition held in San Diego, CA on June 21, 2014
Fairview High School Boulder
The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics

Colorado Chemistry Teachers Association

CCTA Chemistry Award

Brycen Hotz 6th grade
\$100
Monte Vista Middle School Monte Vista
An "tea" oxidants

Casey Knapke 10th grade
\$100
SkyView Academy Highlands Ranch
How Cool Does It Have To Be To Shed Light on the Crime?

Colorado Dental Association

Jenner Dunn 8th grade
Julia Mathews 8th grade
\$50
Brush Middle School Brush
Teeth Decay

Edwin Bodoni 7th grade
\$100
Cherry Creek Challenge School Denver
Preventative Listerine vs Oral Bacteria Team

Collin Leonard 9th grade
\$100
Springfield Jr/Sr High School Springfield
Toddler's Teeth

Colorado Division of Reclamation, Mining & Safety

Outstanding Earth Science Award

Chloe Bleak 8th grade
\$75
Insight School of Colorado Westminster
Effect of Wheat Residue Mass & Simulated Precipitation Amount & Frequency on Soil Water Evaporation

Raelen Barr 9th grade
Hannah deKay 9th grade
\$75
Silverton Public High School Silverton
Can Trees Be Used to Map a Chemical History of a Water Source?

Colorado Environmental Health Association

Beatriz Kuperus 8th grade
\$75, framed certificate
Summit Middle School Boulder
Oceans of Water to Drink: Improving the Efficiency of a Solar Water Still

Rachel Rossi 12th grade
\$150, framed certificate, invitation to exhibit at the CEHA Annual Education al Conference (\$400 value)
Durango High School Durango
Hydraulic Fracturing Fluid Remediation in Water: Exploration of Mycoremediation Capabilities of Fungi

Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Chloe Bleak 8th grade
\$50, certificate
Insight School of Colorado Westminster
Effect of Wheat Residue Mass & Simulated Precipitation Amount & Frequency on Soil Water Evaporation

Stephanie Zhang 8th grade
\$50, certificate
Summit Middle School Boulder
Should Old McDonald Till His Farm?

Tara Cook 12th grade
\$50, certificate
Sterling High School Sterling
A Study of Pseudomonas putida as a Viable Biofertilizer for Crops in Soils with High Salinity

Hinal Rathi 12th grade
\$50, certificate
Alamosa High School Alamosa
Metabolite Profiling of Potato Plants Using GC-MS

Colorado Geographic Alliance

CGA Application of Geography Award

Misha Kummel 8th grade
\$100
North Middle School Colorado Springs
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River

Lauren Soehner 10th grade
\$100
Wray High School Wray
A Bug's Life: The City of Wray's Effects on Benthic Macroinvertebrates in the Republican River

Colorado Medical Society

CMS Education Foundation Award

Madison Werschky 7th 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
The Classical Academy Colorado Springs
Got Gluten?

Jonathan Snedeker 11th 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
Fairview High School Boulder
Are Food Additives Health Substractives? The Drosophila in the Coal Mine

Colorado Mineral Society

Joe Pope 7th grade
\$35, 2 mineral specimens, book, certificate
St. Columba Catholic School Durango
Got Oil? Part II: A Study of Oil Absorption in Sandstone

Misha Kummel 8th grade
\$50, 2 mineral specimens, book, certificate
North Middle School Colorado Springs
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River

Lenka Dorskocil 9th grade
\$35, 2 mineral specimens, book, certificate
Bayfield High School Bayfield
Healing Scars: A Study on the Use of Biochar as an AMD Buffer

Raelen Barr 9th grade
Hannah deKay 9th grade
\$50, 2 mineral specimens, book, certificate
Silverton Public High School Silverton
Can Trees Be Used to Map a Chemical History of a Water Source?

Colorado Scientific Society

Joe Pope 7th grade
\$50
St. Columba Catholic School Durango
Got Oil? Part II: A Study of Oil Absorption in Sandstone

Misha Kummel 8th grade
\$75
North Middle School Colorado Springs
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River

Hannah Fischer 9th grade
\$75
Sierra Grande Jr/Sr High School Blanca
Wildfire! Understanding the Complexities of the West Fork Complex Fire

Rachel Rossi 12th grade
\$100
Durango High School Durango
Hydraulic Fracturing Fluid Remediation in Water: Exploration of Mycoremediation Capabilities of Fungi

Colorado State University

College of Agricultural Sciences

Innovations in the Science of Agriculture Award

Haleigh Prosser 8th grade
\$500
Wiley Jr/Sr High School Wiley
"C" the Difference: Effects of Vitamin C in Cattle Fed Wet Distillers' Grains Rations

Tara Cook 12th grade
\$500
Sterling High School Sterling
A Study of Pseudomonas putida as a Viable Biofertilizer for Crops in Soils with High Salinity

Colorado State University

Dept of Biochemistry & Molecular Biology

Logan Collins 11th grade
\$100, certificate
Fairview High School Boulder
The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics

Colorado State University

Department of Chemistry

Samuel Stoltz 7th grade
\$100, certificate
Frontier Academy Secondary Greeley
Patterns Between Total Weight and DNA Weight

Sydney Correll 10th grade
\$100, certificate
Edison High School Yoder
Vitamin Enhanced Creamer to Fortify Coffee and Increase Health

Colorado State University

Dept of Horticulture & Landscape Architecture

Mattie Singley 6th grade
Nathaniel Miner 7th grade
\$100
Brush Middle School Brush
The Effects of Seed Damage on Maple Samara Dispersal

Kyra Leland 8th grade
\$100
Summit Middle School Boulder
The Effects of Different Types of Animal Manure on the Growth of Red Kale

Hinal Rathi 12th grade
\$100
Alamosa High School Alamosa
Metabolite Profiling of Potato Plants Using GC-MS

Colorado State University, Energy Institute

Energy Achievement Award

Nurul MohdReza 12th grade
certificate, invitation to present research at the annual Energy Expo, April 17, 2014 at Colorado State University (travel expenses provided up to \$500)
Union Colony School Greeley
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell

Colorado Veterinary Medical Association (CVMA) & CVMA Auxiliary

Veterinary Science Award

Haleigh Prosser 8th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate
Wiley Jr/Sr High School Wiley
"C" the Difference: Effects of Vitamin C in Cattle Fed Wet Distillers' Grains Rations

Apoorva Krishnan 10th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate
Cherry Creek High School Greenwood Village
The Effects of Dietary Habits and Environmental Conditions on Health Factors in Golden Retrievers

Colorado's Touchstone Energy Cooperatives

Colorado EnergyWise Award

Diego Olaya 8th grade
\$250, certificate
Peak to Peak Charter School Lafayette
Eliminating Standby Power

Kelsey Lindbloom 10th grade
\$250, certificate
Salida High School Salida
Fueling the Future Phase 3: Decreasing Internal Resistance within a Microbial Fuel Cell

Colorado-Wyoming Society of American Foresters

Mannon Frykholm 8th grade
\$100
Summit Middle School Boulder
Adding Fuel to the Fire: The Impact of Moisture Content on Fire Ignition, Heat, and Duration

Andy Volt 10th grade
\$100
West Grand High School Kremmling
Burned Out

Comstock Family

Heather Comstock Memorial Award

Logan Collins 11th grade
\$300, certificate
Fairview High School Boulder
The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics

Constant Family

Constant Family Award for Excellence in Computer Science

Molly Nehring 7th grade
\$100, certificate, 8 GB flash drive
Monte Vista Middle School Monte Vista
Pondering Paths with Python

Leighton Burt 9th grade
\$150, 16 GB flash drive
Sargent High School Monte Vista
Avoiding the Voids: Investigating Autonomous Rover Mapping Strategies

Eppler Family

Max Warnock 6th grade
microprocessor kit & Digital multimeter
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Allison Palmer 7th grade
microprocessor kit & Digital multimeter
Frontier Academy Secondary Greeley
Rolling Friction

Mary Hood 10th grade
digital oscilloscope
Sargent High School Monte Vista
Hit Me with Your Best Shot: An Arduino Controlled Training Platform for Child Martial Artists

Casey Zhang 10th grade
Feynman Lectures on Physics
Fairview High School Boulder
An Analytical, Numerical, and Experimental Study of Solitons in Optical Fiber

Fort Collins Conservation District

Emily Fitzjohn 8th grade
\$50, plaque
Quest Academy Dacono
Mudslide Mayhem

Sarah Stalcup 12th grade
\$50, plaque
Delta High School Delta
Riparian Area Multiple Indicator Monitoring

Frank Armbruster Foundation

Armbruster Memorial Award

Max Warnock 6th grade
\$100
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Geological Society of America

GSA Awards in Environmental Geology

Lenka Dorskocil 9th grade
GSA membership, 2014 GSA calendar, GSA photo scale
Bayfield High School Bayfield
Healing Scars: A Study on the Use of Biochar as an AMD Buffer

Raelen Barr 9th grade
Hannah deKay 9th grade
GSA membership, 2014 GSA calendar, GSA photo scal, Rite in the Rain spiral notebook, Rite in the Rain all weather pen
Silverton Public High School Silverton
Can Trees Be Used to Map a Chemical History of a Water Source?

Rachel Rossi 12th grade
GSA membership, 2014 GSA calendar, GSA photo scal, Rite in the Rain spiral notebook, Rite in the Rain all weather pen, The Geoscientists Handbook
Durango High School Durango
Hydraulic Fracturing Fluid Remediation in Water: Exploration of Mycoremediation Capabilities of Fungi

Human Factors and Ergonomics Society Rocky Mountain Chapter

Max Warnock 6th grade
\$100
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Mary Hood 10th grade
\$100
Sargent High School Monte Vista
Hit Me with Your Best Shot: An Arduino Controlled Training Platform for Child Martial Artists

Institute of Electrical and Electronics Engineers High Plains Section

Max Warnock 6th grade
\$100
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Matthew Hileman 10th grade
\$150
The Classical Academy, College Colorado Springs
Cube Satellites: Miniature Satellite Design and Operations for Pulsed Plasma System Applications

Little Shop of Physics

Matthew McCausland Memorial Award

Joshua Gilmore 6th grade
Hoberman Sphere
Columbian Elementary School Pueblo
Banana Music

Shelby Wood 6th grade
Hoberman Sphere
Monument Academy Monument
Could Plastic Wrap Save Your Life?

Max Warnock 6th grade
\$100
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Mary Hood 10th grade
\$100
Sargent High School Monte Vista
Hit Me with Your Best Shot: An Arduino Controlled Training Platform for Child Martial Artists

Lockheed Martin

Hari Sowrirajan 8th grade
\$50
Cherry Creek Challenge School Denver
Soak Up the Sun: Using Nanoparticles to Catalyze Water Vaporization

Trevor Jordan 10th grade
\$100
Grace Preparatory Academy Durango
A Wing of the Future

National Geophysical Data Center NGDC Award of Scientific Achievement

Stephanie Zhang 8th grade
\$50 money order, certificate, plaque
Summit Middle School Boulder
Should Old McDonald Till His Farm?

Penny Propst

Moving Science Forward Award

Alison Weinberger 10th grade
\$1,000 scholarship
Cherry Creek High School Greenwood Village
Is Homeopathy More Than a Placebo? Assessing Homeopathic Principles in a Male Fruit Fly Model

Rocky Mountain Association of Geologists

Misha Kummel 8th grade
cash award to be determined after CSEF
North Middle School Colorado Springs
A River Degraded: The Effect of Fountain Creek on Fluvial Processes & Ecology of the Arkansas River

SACNAS, Colorado State University Chapter

Rising Young Scientist Award

Sakthi Asokan 6th grade
\$50
Liberty Middle School Aurora
Oreo Theory-O

Bryce Kellum 8th grade
\$50
Windsor Charter Academy Windsor
Can Pigs Fly?

Hinal Rathi 12th grade
\$50
Alamosa High School Alamosa
Metabolite Profiling of Potato Plants Using GC-MS

Anna Hong 9th grade
\$50
Sand Creek High School Colorado Springs
The Effect of Acidic Liquids on American Currency

Science Toy Magic, LLC

Allison Palmer 7th grade
\$50
Frontier Academy Secondary Greeley
Rolling Friction

Kendrick Castillo 7th grade
\$100
Notre Dame Catholic School Denver
Brake Check!

Bethany Hibbs 10th grade
\$50
Pioneer Christian School Rocky Ford
Measuring Luminescence in Glow-in-the-Dark Objects

Jacob Hans 9th grade
\$100
Sand Creek High School Colorado Springs
Robotically Enhanced Autonomous Pet Food Dispenser

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

Lauren Rowan 8th grade
\$100, plaque
Blevins Middle School Fort Collins
Radon

Victoria Dunivan 7th grade
\$200, plaque
Walsh Jr/Sr High School Walsh
Sensor Arrays

Lenka Duskocil 9th grade
\$100, plaque
Bayfield High School Bayfield
Healing Scars: A Study on the Use of Biochar as an AMD Buffer

Raelen Barr 9th grade
Hannah deKay 9th grade
\$200, plaque
Silverton Public High School Silverton
Can Trees Be Used to Map a Chemical History of a Water Source?

**Society of Manufacturing Engineers
Colorado Chapter 354**

Andy Keller Memorial Award

Daisy Garcia 11th grade
\$100, recognition by the local chapter
Center High School Center
Making Biodegradable Plastic Out of Banana Peels

Kelsey Lindbloom 10th grade
\$150, recognition by the local chapter
Salida High School Salida
Fueling the Future Phase 3: Decreasing Internal Resistance within a Microbial Fuel Cell

William Poburka 11th grade
Phillip Zhang 11th grade
Matthew Correia 11th grade
\$200, recognition by the local chapter
Rampart High School Colorado Springs
Design and Implementation of Vertical Axis Wind Turbines for Local Power Generation

**Society of Women Engineers
Rocky Mountain Section**

Alia Kraxberger 7th grade
\$75, certificate
Genoa-Hugo School Hugo
Wind Turbine Blade Styles vs Voltage Output

Beatriz Kuperus 8th grade
\$100, certificate
Summit Middle School Boulder
Oceans of Water to Drink: Improving the Efficiency of a Solar Water Still

Nurul MohdReza 12th grade
\$75, certificate
Union Colony School Greeley
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell

Mary Hood 10th grade
\$100, certificate
Sargent High School Monte Vista
Hit Me with Your Best Shot: An Arduino Controlled Training Platform for Child Martial Artists

**Soil & Water Conservation Society
Colorado Chapter**

Chloe Bleak 8th grade
\$100, certificate
Insight School of Colorado Westminster
Effect of Wheat Residue Mass & Simulated Precipitation Amount & Frequency on Soil Water Evaporation

Cassidy Plane 9th grade
\$100, certificate
Sargent High School Monte Vista
Burning Erosion

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

SPIE Optics and Photonics Science Fair Award

Hari Sowrirajan 8th grade
\$100
Cherry Creek Challenge School Denver
Soak Up the Sun: Using Nanoparticles to Catalyze Water Vaporization

Cera Kollruss 8th grade
\$150
Woodlin School Woodrow
Beauty in the Face of Disaster

Fiona Anderson 8th grade
\$250
Summit Middle School Boulder
Liquid Invisibility Cloak

Casey Knapke 10th grade
\$100
SkyView Academy Highlands Ranch
How Cool Does It Have To Be To Shed Light on the Crime?

Zachary P. Wilson 12th grade
\$150
Broomfield High School Broomfield
*Analyzing Coronal Holes Using Atmospheric Imaging
Assembly on the Solar Dynamics Observatory*

Casey Zhang 10th grade
\$250
Fairview High School Boulder
*An Analytical, Numerical, and Experimental Study of Solitons
in Optical Fiber*

The Inventors' Roundtable

Max Warnock 6th grade
\$100, free patent search (\$499 value)
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Trout Unlimited

Trout Unlimited River Conservation Award

Sarah Stalcup 12th grade
\$75
Delta High School Delta
Riparian Area Multiple Indicator Monitoring

Tara Suppes 11th grade
\$125
Delta High School Delta
Watershed Stream Temperature Monitoring

Misha Kummel 8th grade
\$250, Boulder Flycasters hat
North Middle School Colorado Springs
*A River Degraded: The Effect of Fountain Creek on Fluvial
Processes & Ecology of the Arkansas River*

United States Department of Commerce

US Department of Commerce Internship Award

Zachary P. Wilson 12th grade
alternate for summer employment with the Department of
Commerce with the possibility for future continuing
employment
Broomfield High School Broomfield
*Analyzing Coronal Holes Using Atmospheric Imaging
Assembly on the Solar Dynamics Observatory*

Audrey Randall 12th grade
summer employment with the Department of Commerce with
the possibility for future continuing employment
Fairview High School Boulder
*Least Significant Bit Steganography for Covert Audio Data
Transmission*

United States Geological Survey

USGS Excellence in Geological or Water Research Award

Daniel Arrasmith 7th grade
reference book, mineral specimen
The Classical Academy Colorado Springs
Counter Color Crisis!

Derek Russell 9th grade
reference book, mineral specimen
Sand Creek High School Colorado Springs
The Effects of Forest Fires on the Characteristics of Soil

University of Colorado Anschutz Medical Campus

Medical Scientist Training Program Award

Sam Korman 7th grade
\$50
Stanley British Primary School Denver
Leg Sweepstakes: Stanley vs Klann vs Jansen

Alison Weinberger 10th grade
\$50
Cherry Creek High School Greenwood Village
*Is Homeopathy More Than a Placebo? Assessing Homeopathic
Principles in a Male Fruit Fly Model*

University of Northern Colorado

Mathematics and Science Teaching Institute

Molly Nehring 7th grade
\$50
Monte Vista Middle School Monte Vista
Pondering Paths with Python

Jacob Hans 9th grade
\$50
Sand Creek High School Colorado Springs
Robotically Enhanced Autonomous Pet Food Dispenser

Wojtaszek Family

Paul Wojtaszek Memorial Award

Roshni Kalkur 11th grade
\$300
Air Academy High School Colorado Springs
*The Impact of Deuterium Oxide on the Cell Cycle of RBL Cells
via Tubulin-mediated Antimitotic Action*

Women in Physics

Colorado State University Chapter

Promising Young Woman in Science Award

Fiona Anderson 8th grade
\$50
Summit Middle School Boulder
Liquid Invisibility Cloak

Yale Science & Engineering Association

Stephen Parish 11th grade
certificate, pewter medallion (to be mailed)
Home School Colorado Springs
*Network Response to Intrusion Detection: Probabilistic
Methods in Machine Informatics to Secure Multiple Targets*

Zonta Club of Boulder County

Amelia Earhart Award

Alia Kraxberger 7th grade
\$100, certificate
Genoa-Hugo School Hugo
Wind Turbine Blade Styles vs Voltage Output

Scholarships

Adams State University

Amanda Sears 11th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Wiggins Jr/Sr High School Wiggins
The A-MAZE-ing Race

Zack Frongillo 11th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Warren Tech Central High School Lakewood
Myth Busting, Money Saver, Taste Bud Tester

Bethany Hibbs 10th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Pioneer Christian School Rocky Ford
Measuring Luminescence in Glow-in-the-Dark Objects

Cassidy Plane 9th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Sargent High School Monte Vista
Burning Erosion

Ethan Heberd 9th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Walsh Jr/Sr High School Walsh
Making Hydrogen from Water

Mary Hood 10th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Sargent High School Monte Vista
*Hit Me with Your Best Shot: An Arduino Controlled Training
Platform for Child Martial Artists*

Taylor Rocha 12th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Monte Vista High School Monte Vista
*A Potential Management Strategy for the Endangered
Southwestern Willow Flycatcher: Effects of Early Season
Wildfire on Foraging and Nesting Riparian Habitat*

Stephen Parish 11th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Home School Colorado Springs
*Network Response to Intrusion Detection: Probabilistic
Methods in Machine Informatics to Secure Multiple Targets*

Jenna Dillenburg 11th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Sterling High School Sterling
*The Effects of PYY Hormone on the Physiology of
Gromphadorhina portentosa*

Nicole Whitehead 10th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Palmer High School Colorado Springs
Food, The New Antibiotic

Emily Sharpe 10th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Springfield Jr/Sr High School Springfield
Compress Test

Breanna Elson 11th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Warren Tech Central High School Lakewood
Plants Grow Well In That Icky Smell

Austin Katzer 10th grade
Cameron Vanvleet 10th grade
Noah Haswell 10th grade
one-year resident tuition & fees scholarship to attend Adams
State University (~\$5,000 value)
Paonia High School Paonia
Is Biodiesel Really "Green"?

Colorado School of Mines

Sanjna Bhartiya 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Cherry Creek High School Greenwood Village
*Effects of Various Soil Types as a Buffer to Excess Nutrients in
Runoff Water*

Logan Collins 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Fairview High School Boulder
*The Conjugative Plasmid RK2 As a Delivery System for
Artificial AnatheriaH Genes: A Novel Synthetic Biology
Alternative to Traditional Antibiotics*

Daisy Garcia 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Center High School Center
Making Biodegradable Plastic Out of Banana Peels

Stephen Parish 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Home School Colorado Springs
*Network Response to Intrusion Detection: Probabilistic
Methods in Machine Informatics to Secure Multiple Targets*

Sebastian Rowe 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Edison High School Yoder
*The Effects of Common Water Pollutants on the Movement of
Water in Elodea Cells*

Emma Scholz 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Sterling High School Sterling
*Studying the Correlation of a Country's Quantified Cultural
Diversity and Average Age of Alzheimer's Disease Onset*

Jesse Zhang 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Fairview High School Boulder
Lunar Tide Contribution to Thermosphere Weather

Jonathan Snedeker 11th grade
\$1,000 tuition scholarship, renewable for up to 3-additional
years for use toward an undergraduate degree at CSM
Fairview High School Boulder
*Are Food Additives Health Subtractive? The Drosophila in the
Coal Mine*

Colorado State University

Hannah Niccoli 9th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Fleming High School Fleming
*Too Scared To Be Fat: The Effects of Adrenaline on Fat
Metabolism*

Maya Frost-Belansky 10th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Fairview High School Boulder
2D:4D and Perceived Aggression

Alanna Chacon 12th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Center High School Center
*Quantification of Capsaicin and Dihydrocapsaicin in Various
Peppers for Future Medical Investigation*

Zachary P. Wilson 12th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Broomfield High School Broomfield
*Analyzing Coronal Holes Using Atmospheric Imaging
Assembly on the Solar Dynamics Observatory*

Matthew Hileman 10th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
The Classical Academy, College Colorado Springs
*Cube Satellites: Miniature Satellite Design and Operations for
Pulsed Plasma System Applications*

Hope Weinstein 12th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Fairview High School Boulder
*Zero Valent Iron Nanoparticle Enhanced Membranes for
Water Filtration: Optimizing Casting Parameters for Global
Applications*

Audrey Randall 12th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Fairview High School Boulder
*Least Significant Bit Steganography for Covert Audio Data
Transmission*

Ellora Bultema 9th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Palmer High School Colorado Springs
*Weighting for the Bang: Bullet Mass and Barrel Length Effect
on Kinetic Energy and Penetration Depth*

Colorado State University College of Natural Sciences

Logan Collins 11th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Fairview High School Boulder
*The Conjugative Plasmid RK2 As a Delivery System for
Artificial AnatheriaH Genes: A Novel Synthetic Biology
Alternative to Traditional Antibiotics*

Nurul MohdReza 12th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Union Colony School Greeley
*Year II: Domestic Wastewater Clarification and Power
Generation- Increasing the Conductivity of Permeated
Electrodes in a Single-Celled Microbial Fuel Cell*

Matthew Hileman 10th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
The Classical Academy, College Colorado Springs
*Cube Satellites: Miniature Satellite Design and Operations for
Pulsed Plasma System Applications*

Lawrence Zhang 12th grade
\$1,000 scholarship to attend Colorado State University,
renewable for up to 3 years
Fairview High School Boulder
*Suppression of Malonyl-CoA:ACP Transacylase as a
Treatment for Squamous Cell Carcinomas*

Colorado State University, Pueblo

Daisy Garcia 11th grade
\$1,000 scholarship to attend CSU Pueblo
Center High School Center
Making Biodegradable Plastic Out of Banana Peels

Intel Foundation

Ryan Patterson Scholarship

Lawrence Zhang 12th grade
\$2,000 non-renewable scholarship to school of student's choice
Fairview High School Boulder
*Suppression of Malonyl-CoA:ACP Transacylase as a
Treatment for Squamous Cell Carcinomas*

University of Colorado, Boulder

College of Engineering and Applied Sciences

Scholarships

Mannon Frykholm 8th grade

\$500 scholarship to attend CU Boulder

Summit Middle School Boulder

Adding Fuel to the Fire: The Impact of Moisture Content on Fire Ignition, Heat, and Duration

Rebecca Bloomfield 9th grade

\$500 scholarship to attend CU Boulder

Palmer High School Colorado Springs

The Itch to Twitch: The Effects of DNA, DNase, and degraded DNA on Twitching Motility in Acinetobacter

Mary Hood 10th grade

\$500 scholarship to attend CU Boulder

Sargent High School Monte Vista

Hit Me with Your Best Shot: An Arduino Controlled Training Platform for Child Martial Artists

Jesse Zhang 11th grade

\$1,000 scholarship to attend CU Boulder

Fairview High School Boulder

Lunar Tide Contribution to Thermosphere Weather

Jennifer Jones 11th grade

\$1,000 scholarship to attend CU Boulder

Frontier Academy Secondary Greeley

Creating Permutations for Actions on Young Tableaux

Eric Lyne 11th grade

\$1,000 scholarship to attend CU Boulder

Brush High School Brush

Utilizing Aerodynamics to Maximize Fuel Efficiency in Vehicles with Sensors

Roshni Kalkur 11th grade

\$1,000 scholarship to attend CU Boulder

Air Academy High School Colorado Springs

The Impact of Deuterium Oxide on the Cell Cycle of RBL Cells via Tubulin-mediated Antimitotic Action

Stephen Parish 11th grade

\$1,000 scholarship to attend CU Boulder

Home School Colorado Springs

Network Response to Intrusion Detection: Probabilistic Methods in Machine Informatics to Secure Multiple Targets

SSP

American Psychological Association

Fiona Henderson 7th grade certificate

Girls Athletic Leadership School Denver

Reading with Vibes: The Effect of Sound Vibration on Reading Scores

Audra Burke 12th grade

Jason Mackay 12th grade

certificate

Edison High School Yoder

Testing the Significance of Racial, Age, and Gender Descriptors in Relation to Personal Interaction

Association for Women Geoscientists

Lauren Rowan 8th grade

certificate

Blevins Middle School Fort Collins

Radon

Lenka Duskocil 9th grade

certificate

Bayfield High School Bayfield

Healing Scars: A Study on the Use of Biochar as an AMD

Buffer

Broadcom MASTERS

National Middle School Science & Engineering Fair

Competition Nomination

Casey Shaw 8th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

Liberty School Joes

Something Fishy - The Effect of Recombinant Bovine Growth

Hormone on Bluegill Growth

Caroline Jennings 7th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

The Classical Academy Colorado Springs

Can You Believe Your Eyes?

Nicole Miller 6th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

Ortega Middle School Alamosa

Know the Glow

Chloe Bleak 8th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

Insight School of Colorado Westminster

Effect of Wheat Residue Mass & Simulated Precipitation

Amount & Frequency on Soil Water Evaporation

Liam Young 7th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

The Classical Academy Colorado Springs

The Bubble Effect: How Nozzle Induced Cavitation Affects

Torpedo Operation

Beatriz Kuperus 8th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

Summit Middle School Boulder

Oceans of Water to Drink: Improving the Efficiency of a Solar Water Still

Hari Sowrirajan 8th grade

certificate, nomination to the 2014 Broadcom MASTERS

competition

Cherry Creek Challenge School Denver

Soak Up the Sun: Using Nanoparticles to Catalyze Water

Vaporization

Molly Nehring 7th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Monte Vista Middle School Monte Vista
Pondering Paths with Python

Edwin Bodoni 7th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Cherry Creek Challenge School Denver
Preventative Listerine vs Oral Bacteria Team

Maya Duran 8th grade
Sayer Guerrero 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Pueblo School for Arts and Sciences Pueblo
Outie or Innie?

Fiona Anderson 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Summit Middle School Boulder
Liquid Invisibility Cloak

Kyra Leland 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Summit Middle School Boulder
*The Effects of Different Types of Animal Manure on the Growth
of Red Kale*

Amrita Purkayastha 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Summit Middle School Boulder
How Weight Affects Canine Hypothyroidism

Amelia Greene 7th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
The Classical Academy Colorado Springs
*Happiness Is . . . An Investigation of Children's Emotional
Response to Musical Chords and Varied Images*

Breann Ritter 6th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Monument Academy Monument
Mysterious Hot Spring Crystal

Stephanie Zhang 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Summit Middle School Boulder
Should Old McDonald Till His Farm?

Brooks Rady 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Prospect Ridge Academy Broomfield
*Converting Single Cellular Algae into Bio-diesel through
Transesterification of Triglycerides and Bio-Gasoline through
Aerobic Fermentation, While Using M.U.P.'s*

Max Warnock 6th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Home School Fort Collins
Camp Lamp: Designing a Better Headlamp

Zach L. Wilson 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Walsh Jr/Sr High School Walsh
Green Water?: Purification of Feedyard Lagoons With

Anjalie Kini 7th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Cherry Creek Challenge School Denver
Experimenting with Cryptographic Algorithms

Sam Duarte 6th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Quest Academy Dacono
Mind Your Head

Alexa Valenzuela 7th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
The Classical Academy Colorado Springs
What Kills Our Killers

Kalten Mattics 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Olathe Middle School Olathe
Investigating Radioactivity in a Cloud Chamber

Colby Self 8th grade
certificate, nomination to the 2014 Broadcom MASTERS
competition
Monte Vista Middle School Monte Vista
Do Colorado Plants Need A Gas Mask?

Intel Corporation

Excellence in Computer Science Award

Leighton Burt 9th grade
certificate, \$200 (to be mailed)
Sargent High School Monte Vista
*Avoiding the Voids: Investigating Autonomous Rover Mapping
Strategies*

Jennifer Jones 11th grade
certificate, \$200 (to be mailed)
Frontier Academy Secondary Greeley
Creating Permutations for Actions on Young Tableaux

National High School and Two-Year College

Mathematics Honor Society

Mu Alpha Theta Award

Jacob Imola 12th grade
Jordan Crawford 12th grade
certificate
Cherry Creek High School Greenwood Village
*A Wheely Hard Problem: Finding a Non-intersecting, Closed
Path Tangent to a Given Set of Circles*

Jacob Nichols 12th grade
certificate
Brush High School Brush
An Application of Calculus Principles to Icicle Volume

Ricoh Americas Corporation

Ricoh Sustainability Development Award

Max Markuson DiPrince 8th grade
certificate
Pueblo School for Arts and Sciences Pueblo
The Impact of Parking Lots on Soil Health

Lauren Soehner 10th grade
certificate
Wray High School Wray
A Bug's Life: The City of Wray's Effects on Benthic Macroinvertebrates in the Republican River

Society for In Vitro Biology

Roshni Kalkur 11th grade
certificate
Air Academy High School Colorado Springs
The Impact of Deuterium Oxide on the Cell Cycle of RBL: Cells via Tubulin-mediated Antimitotic Action

Sebastian Rowe 11th grade
certificate
Edison High School Yoder
The Effects of Common Water Pollutants on the Movement of Water in Elodea Cells

United States Department of Commerce

National Oceanic and Atmospheric Administration Award

Emily Fitzjohn 8th grade
certificate, lapel pin
Quest Academy Dacono
Mudslide Mayhem

Nurul MohdReza 12th grade
certificate, lapel pin
Union Colony School Greeley
Year II: Domestic Wastewater Clarification and Power Generation- Increasing the Conductivity of Permeated Electrodes in a Single-Celled Microbial Fuel Cell

United States Department of Health & Human Services

Surgeon General's Special Science Award

Erin Percy 8th grade
Certificate, medallion
The Classical Academy Colorado Springs
"Hot or Not?" Disinfecting Medical Grade Vinyl Using a Bleach Solution at Different Temperatures

Logan Collins 11th grade
Certificate, medallion
Fairview High School Boulder
The Conjugative Plasmid RK2 As a Delivery System for Artificial AnatheriaH Genes: A Novel Synthetic Biology Alternative to Traditional Antibiotics

United States Metric Association

Isabel Dalmer 6th grade
certificate
Liberty Middle School Aurora
Strong Box, Weak Box

Jenna Dillenburg 11th grade
certificate
Sterling High School Sterling
The Effects of PYY Hormone on the Physiology of Gromphadorhina porentosa

Water Environment Association

Stockholm Junior Water Prize Award

Hope Weinstein 12th grade
certificate, nomination to the SJWP state competition
Fairview High School Boulder
Zero Valent Iron Nanoparticle Enhanced Membranes for Water Filtration: Optimizing Casting Parameters for Global Applications

Rachel Rossi 12th grade
certificate, nomination to the SJWP state competition
Durango High School Durango
Hydraulic Fracturing Fluid Remediation in Water: Exploration of Mycoremediation Capabilities of Fungi

Rahul Ramesh 9th grade
certificate, nomination to the SJWP state competition
Cherry Creek High School Greenwood Village
Studying the Impact of Algal and Cyanobacterial Photosynthesis on the Efficiency of a MDFC