



Colorado Science and Engineering Fair

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2015 Colorado Science and Engineering Fair Award Winners

Fort Collins, CO (April 10, 2015) – This year’s Colorado Science and Engineering Fair (CSEF) was held April 9 – 11, 2015. 340 projects were on display from students in grades 6 through 12, at the Lory Student Center on the Colorado State University Fort Collins campus.

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 Pittsburgh, PA to compete in the Intel International Science and Engineering Fair in May. They are:

1st Place: Mary Hood, 11th grade, from Sargent Jr/Sr High School for the project *SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly*.

2nd Place: Logan Collins, 12th grade, from Fairview High School for the project *An RK2 Mediated Bacterial Conjugation Delivery System for Artificial Genes Coding for Antimicrobial Polypeptides: A Novel Synthetic Biology Approach to Antibiotic Resistance*.

3rd Place: Elliot Gorokhovskiy, 10th grade, from Fairview High School for the project *A Novel Algorithm for Model Counting*.

4th Place: Sam Scheeres, 12th grade, from Fairview High School for the project *Rigorous Constraints on Exchange for the 3-body Problem*.

The CSEF also presented the Lockheed Martin Teacher of the Year Award to Diego Martinez from Center High School in Center

Special thanks goes to all of the contributors and sponsors of the 2015 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, Black & Veatch – Building a World of

Difference Foundation , Lockheed Martin, US Department of Commerce, Colorado Dental Association, Seagate Technology, and Society of Petroleum Engineers.

For a complete list of all of the 2015 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 60 years.

2015 Colorado Science and Engineering Fair

Grand Awards Press Release

Junior Division Best CSEF Project

First Place

Kathryn Kummel 6th grade
The Danger of Drinking Water: How Mountain Lions Affect Elk Behavior and Aspen Regeneration
 North Middle School Colorado Springs

Second Place

Avery Lin 7th grade
War on Waves: A Study of Different Coastal Defenses and Their Effectiveness Against Tsunamis
 Stanley British Primary School Denver

Third Place

Emhyr Subramanian 7th grade
Potential Biodegradable Alternatives to Current Petroleum-Based Surfactants for Oil Spill Cleanup
 Cherry Creek Challenge School Denver

Senior Division Best CSEF Project

First Place

Mary Hood 11th grade
SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly
 Sargent Jr/Sr High School Monte Vista

Second Place

Logan Collins 12th grade
An RK2 Mediated Bacterial Conjugation Delivery System for Artificial Genes Coding for Antimicrobial Polypeptides: A Novel Synthetic Biology Approach to Antibiotic Resistance
 Fairview High School Boulder

Third Place

Elliot Gorokhovskiy 10th grade
A Novel Algorithm for Model Counting
 Fairview High School Boulder

Fourth Place

Sam Scheeres 12th grade
Rigorous Constraints on Exchange for the 3-body Problem
 Fairview High School Boulder

Junior Division Animal Sciences

First Place

Kathryn Kummel 6th grade
The Danger of Drinking Water: How Mountain Lions Affect Elk Behavior and Aspen Regeneration
 North Middle School Colorado Springs

Second Place

Felix Channiago 8th grade
The Effect of Temperature on Hunting Response Time of Female Habronattus Jumping Spiders
 West Jefferson Middle School Conifer

Third Place

Dovvie Knowlton 7th grade
Got Doggy Drool
 Fowler Junior High School Fowler

Fourth Place

Jacob Wright 8th grade
Wind in My Mane
 Walsh Jr/Sr High School Walsh

Honorable Mention

Quinn McConnell 8th grade
The Magic of Enzymes
 Peak to Peak Charter School Lafayette

Honorable Mention

Sydnee Roth 8th grade
Take the Bull by the Heart: The Effects of Energy Drinks on Heartrate of Daphnia
 Liberty School Joes

Senior Division Animal Sciences

First Place

Margaret Preigh 12th grade
Pulsing Electromagnetic Radiation at 50/60Hz as a Pest Repellant in Insects
 Fairview High School Boulder

Second Place

Emily Zislis 11th grade
The Effect of Genetically Modified Soybean Consumption on Mouse Weight
 Cherry Creek High School Greenwood Village

Third Place

Katie Sanko 11th grade
The Effects of Imidacloprid Insecticide on Wolf Spiders (Lycosidae): A Pilot Study
 Fairview High School Boulder

Fourth Place

Kaitlyn Dumm 10th grade
Leftovers to Livestock: Turning Human Food Waste into Livestock Feed with Consistent Nutrient Values
 Windsor High School Windsor

Honorable Mention

Jeremiah Etter 11th grade
Fields for Flight: Effects of Magnetic Fields on Butterfly Navigation
 Monte Vista High School Monte Vista

Junior Division Behavioral & Social Sciences

First Place

Caroline Jennings 8th grade
Ask Me Twice
 The Classical Academy Colorado Springs

Second Place

Elora Smith 8th grade
The Sweet Smell of You
 Sargent Jr/Sr High School Monte Vista

Third Place

Grace Abraham 8th grade
The Bunny Effect
 Aspen Middle School Aspen

Fourth Place

Clara Foisie 8th grade
Books or Nooks?
 The Classical Academy Colorado Springs

Honorable Mention

Evelyn Bodoni 7th grade
Whatever It Takes
 Cherry Creek Challenge School Denver

Honorable Mention

Amelia Greene 8th grade
Happy, Sad, Curious, Scared: Which Are You? Children's Emotional Response to Musical Chords & Varied Images
 The Classical Academy Colorado Springs

Honorable Mention

Mia Cravitz 8th grade
 Jane Doherty 8th grade
What Engenders A Leader?
 Stanley British Primary School Denver

Honorable Mention

Meredith Neid 7th grade
 Grace Fuselier 7th grade
Inferiority Inquiry
 Stanley British Primary School Denver

**Senior Division
 Behavioral & Social Sciences**

First Place

Serena Rusk 11th grade
An Analysis of Risk Factors for Developing Low Body Satisfaction in Adolescents
 Fairview High School Boulder

Second Place

Sarena Wells 12th grade
Frustration Responses: An Analysis of Dispositional Learning
 Fort Morgan High School Fort Morgan

Third Place

Carmen Ruggles 11th grade
Can We Recycle That?
 Center High School Center

Fourth Place

Alexandria Sinkler 11th grade
 Alan Pence 11th grade
Are Pueblo Vehicle Repair Shops Sexist?
 Dolores Huerta Preparatory High School Pueblo

Honorable Mention

Johanna Mackay 10th grade
 Bryanna Davis 10th grade
Shooting Accuracy of an Individual Within Varying Temperatures
 Edison High School Yoder

Honorable Mention

Kaleb Mora 11th grade
 Angela Nelson 11th grade
 Bryan Adams-Colon 11th grade
How Fast Are You?
 Central High School Pueblo

**Junior Division
 Chemistry**

First Place

Emhyr Subramanian 7th grade
Potential Biodegradable Alternatives to Current Petroleum-Based Surfactants for Oil Spill Cleanup
 Cherry Creek Challenge School Denver

Second Place

Calista Law 7th grade
Eco-Plastics
 Boulder Country Day School Boulder

Third Place

Nicole Miller 7th grade
Blue Bottle Blues
 Ortega Middle School Alamosa

Fourth Place

Nethaniel Kiraly 7th grade
Fire Reducers
 Knowledge Quest Academy Milliken

Honorable Mention

Connor McCauley 7th grade
Vitamin C in Vegetables
 Blessed Sacrament Catholic School Denver

Honorable Mention

Dustin Medina 6th grade
Extracting Strawberry DNA
 Corwin International Magnet School Pueblo

**Senior Division
 Chemistry**

First Place

Sirisha Gudavalli 10th grade
Chemical and Morphological Dependent Properties of Semiconductor Nanocrystals
 Fairview High School Boulder

Second Place

Annie Chen 10th grade
Determining the Stiffness Threshold of a PEG Hydrogel for Motor Neuron Axon Extension
 Boulder High School Boulder

Third Place

Sofia Antal 11th grade
Growth and Testing of New Cocrystals, Part 2
 Cherry Creek High School Greenwood Village

Fourth Place

Shelly Steinert 11th grade
Determining Flame Retardancy of Maize Stover, Medicago Sativa, and Hordeum Vulgare Ash
 Sargent Jr/Sr High School Monte Vista

Honorable Mention

Richard Mallory 11th grade
Hazardous Waste to Renewable Energy
 The Classical Academy College Pathways Colorado Springs

**Junior Division
 Earth & Space Sciences**

First Place

Sara Nehring 6th grade
The Moon Is So Bright: Do You Need Sunglasses at Night?
 Monte Vista Middle School Monte Vista

Second Place

Max Warnock 7th grade
Testing the Viking Sunstone Legend
 Home School Fort Collins

Third Place

Jordyn Hall 8th grade
Temperamental Twisters
 Peak to Peak Charter School Lafayette

Fourth Place

Elani Frantz 8th grade
 Paige Lessig 8th grade
What's the Weather Forecast in Space?
 North Middle School Colorado Springs

Honorable Mention

William Highfill 6th grade
Spoiled Rotten
 Corwin International Magnet School Pueblo

Honorable Mention

Antonio Campos 8th grade
Why Is Venice Sinking?
 Cherry Creek Challenge School Denver

Honorable Mention

Joshua Miller 6th grade
What Type of Soil Best Supports a House During a Liquefaction Event?
 Skinner Middle School Denver

**Senior Division
 Earth & Space Sciences**

First Place

Jesse Zhang 12th grade
Effect of the Atlantic Ocean on Sudden Stratospheric Warming
 Fairview High School Boulder

Second Place

Casey Zhang 11th grade
The QBO and Solar Cycle Modulation in the Lower Atmosphere
 Fairview High School Boulder

Third Place

Ivo Erben 11th grade
The Effect of Climate on a Glacier's ELA and Ablation Gradient
 Boulder High School Boulder

**Junior Division
 Energy & Transportation**

First Place

Mark Bloomfield 7th grade
Blow Out: Scaling Down Compressed Air Energy Storage for Household Use
 Holmes Middle School Colorado Springs

Second Place

Maia Drugmand 8th grade
Dirty Energy
 Peak to Peak Charter School Lafayette

Third Place

Parker Randolph 8th grade
Potential Pitch: The Effect of Sound Frequency on Electricity Generation
 Monte Vista Middle School Monte Vista

Fourth Place

Kendrick Castillo 8th grade
Isn't Electricity "Grey?"
 Notre Dame Catholic School Denver

Honorable Mention

Joe Haase 6th grade
Easy Breezy
 Eads Middle School Eads

**Senior Division
 Energy & Transportation**

First Place

Trevor Jordan 11th grade
A Wing of the Future: Part II
 Animas High School Durango

Second Place

Kelsey Lindbloom 11th grade
Fueling the Future Phase 4: Constructing an Aqueous Vehicle Powered by a Microbial Fuel Cell
 Salida High School Salida

Third Place

Sanjna Bhartiya 12th grade
 Apoorva Krishnan 11th grade
Preventing the Degradation of Dye-Sensitized Solar Cells
 Cherry Creek High School Greenwood Village

Fourth Place

Max Markuson DiPrince 9th grade
Windmill Efficiency: Using a 3D Printer to Engineer More Efficient Windmill Blades
 Central High School Pueblo

Honorable Mention

Austin Katzer	11th grade
Cameron Van Vleet	11th grade
Noah Haswell	11th grade
<i>Is Biodiesel Really Green?</i>	
Paonia Jr/Sr High School	Paonia

**Junior Division
Engineering**

First Place

Cristian Granados	8th grade
<i>Put A Little Spring in Your Step</i>	
North Middle School	Colorado Springs

Second Place

Pranav Subramanian	8th grade
<i>Ultrasonic-Based Optics Utilized for the Blind and Visually Impaired</i>	
Campus Middle School	Greenwood Village

Third Place

Ethan Gearhart	8th grade
<i>The Great Color Sort: Developing an Arduino Based Laundry Sorter</i>	
Sargent Jr/Sr High School	Monte Vista

Fourth Place

Cole Palmer	7th grade
<i>Catch E'm If You Can</i>	
The Classical Academy	Colorado Springs

Honorable Mention

Finn Stowers	8th grade
<i>Frac Fluid Friction: Does Sand Grain Size Affect the Viscosity of Hydraulic Fracturing Fluid?</i>	
St. Columba Catholic School	Durango

Honorable Mention

Devin Conn	6th grade
<i>Sound Propagation Sensing in the Stratosphere</i>	
Corwin International Magnet School	Pueblo

Honorable Mention

Scott Prieve	6th grade
<i>Let It Flow: What Rate Will Different Volumes of Water Travel Down Different Shaped Channels?</i>	
North Middle School	Colorado Springs

**Senior Division
Engineering**

First Place

Mary Hood	11th grade
<i>SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly</i>	
Sargent Jr/Sr High School	Monte Vista

Second Place

Ian Wilkins	12th grade
<i>Optimizing 3D CAD Scanning Algorithms Through Multi-Sensor Data Input</i>	
Fairview High School	Boulder

Third Place

Kevyn Kelso	10th grade
<i>Automatic Trombone Tuner</i>	
The Classical Academy	Colorado Springs

Fourth Place

Leighton Burt	10th grade
<i>Life Saving Locating: Developing Autonomous Avalanche Rescue</i>	
Sargent Jr/Sr High School	Monte Vista

Honorable Mention

Isaac Jordan	9th grade
<i>Save the World, Bomb the Forest</i>	
Animas High School	Durango

**Junior Division
Environmental Sciences**

First Place

Avery Lin	7th grade
<i>War on Waves: A Study of Different Coastal Defenses and Their Effectiveness Against Tsunamis</i>	
Stanley British Primary School	Denver

Second Place

Advaita Singh	8th grade
<i>Effects of Ultraviolet Radiation on Planaria</i>	
Cherry Creek Challenge School	Denver

Third Place

Jonathan Haerr	7th grade
<i>Dead in the Water</i>	
The Classical Academy	Colorado Springs

Fourth Place

Vanessa Haggans	8th grade
<i>Can I Drink It?: Backcountry Water Quality in Boulder County and Its Safety for Runners</i>	
Summit Charter Middle School	Boulder

Honorable Mention

Jordan Elder	7th grade
McKenzy Howerton	7th grade
<i>Got Dirt? Coagulation Experimentation</i>	
Dolores Middle School	Dolores

Honorable Mention

Dylan Duskocil	8th grade
<i>Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation</i>	
Bayfield Middle School	Bayfield

Honorable Mention

Claire McHenry	8th grade
<i>Water Stabilization</i>	
Knowledge Quest Academy	Milliken

Honorable Mention

Lacey Niccoli	8th grade
<i>Denatured: The Effects of pH on Germination</i>	
Liberty School	Joes

Honorable Mention

Katelynn Salmon	8th grade
<i>Effect of Microbeads on Daphnia Heart Rate</i>	
Monument Academy	Monument

**Senior Division
Environmental Sciences**

First Place

Hannah Hartung 12th grade
Effects of Parasites from Long Term Invasive Fish on Native Amphibians in the California Bay Area
Fairview High School Boulder

Second Place

Casey Shaw 9th grade
Arrested Development: Glyphosate-Based Herbicides on the Embryonic Development of Zebra Danios
Liberty School Joes

Third Place

Michelle Kummel 9th grade
A Spoonful of Sugar Helps the Nitrate Go Down: Denitrification in Wetland Soil
Palmer High School Colorado Springs

Fourth Place

Parker Revers 11th grade
Transmission of Ichthyophthirius Multifiliis in Aquatic Environment Dependent on Varying Temperature
Cherry Creek High School Greenwood Village

Honorable Mention

Anne Cox 12th grade
Modeled and Observed Coupling of Climate Change on Aedes aegypti
Nederland Middle/Senior High School Nederland

Honorable Mention

Hannah Fischer 10th grade
Pharmacoenvironmentology: Developing a Baseline for PPCP Contaminant Levels at the MVNWR
Sierra Grande Jr/Sr High School Blanca

Honorable Mention

Emma Scholz 12th grade
Geographical Correlation Maps of Malaria Hemoglobin SS Disease Allele Frequency and Eco. of Ethiopia
Sterling High School Sterling

Honorable Mention

Colby Self 9th grade
How Did the Papoose Fire Affect the Timber Volume on the Rio Grande National Forest?
Monte Vista High School Monte Vista

**Junior Division
Mathematics & Computer Sciences**

First Place

Jack Stade 8th grade
Modeling Parasitic Relations Using Computer Models
Nevin Platt Middle School Boulder

Second Place

Molly Nehring 8th grade
Genetic Algorithms: Solving Math Problems Using Ideas from Nature
Monte Vista Middle School Monte Vista

Third Place

Joshua Bennett 8th grade
Cracking the Code
Pueblo School for Arts and Sciences Pueblo

Fourth Place

Chase Cromwell 7th grade
Raspberry Pi Password Cracker
Lamar Middle School Lamar

Honorable Mention

Benjamin Ferraro 8th grade
The Ultimate Goal: How Angles and Placement Affect Goal Scoring Probability
American Academy Castle Pines

**Senior Division
Mathematics & Computer Sciences**

First Place

Elliot Gorokhovsky 10th grade
A Novel Algorithm for Model Counting
Fairview High School Boulder

Second Place

Avi Swartz 10th grade
Tyler Giallanza 10th grade
Ian Johnson 12th grade
Developing a Class Scheduling Program with Minimum Conflicts for Large Schools
Cherry Creek High School Greenwood Village

Third Place

Eric Sun 11th grade
Measuring Aging Rates in the SardinIA Population Using Pattern Recognition
Pueblo West High School Pueblo West

Fourth Place

Robert Meikle 9th grade
Graphing Calculator Application
Sand Creek High School Colorado Springs

Honorable Mention

Andrew Barlow 12th grade
Ryan Bennett 12th grade
Solar Mapping; Sunspot Variability and Irradiance
Monarch High School Louisville

**Junior Division
Medicine & Health**

First Place

Sam Duarte 7th grade
Bagpipes and Earplugs: Should Great Highland Bagpipe Players Use Earplugs When Practicing?
Quest Academy Dacono

Second Place

Edwin Bodoni 8th grade
Dental Implants: The Healthier Alternative
Cherry Creek Challenge School Denver

Third Place

Maia Garby 8th grade
Honey and Glycerin: A Natural Antibacterial Agent
Summit Charter Middle School Boulder

Fourth Place

Laura Clark 7th grade
Paper Microfluidics: Medical Diagnostics for the Developing World
 St. Columba Catholic School Durango

Honorable Mention

Olivia Jacobsen 7th grade
Weapons of Mass Percussion
 The Classical Academy Colorado Springs

Honorable Mention

Kyrie Milliron 8th grade
To Vitamin D or Not To Vitamin D
 The Classical Academy Colorado Springs

Honorable Mention

Isla Anderson 7th grade
The Affects of Antibiotics and Antiseptics on Skin Staphylococcus Species
 Skinner Middle School Denver

Honorable Mention

Madeline Steinle 8th grade
The Effects of Aspartame on Cognitive Abilities
 Trinity Lutheran School Pueblo

Honorable Mention

Cody Robinson 8th grade
The Effects of Laser Therapy on Cell Regeneration
 Liberty School Joes

Honorable Mention

Brooke Younger 7th grade
 Amy Weisensee 7th grade
An Energetic "Eggs"periment
 Limon Schools Limon

**Senior Division
 Medicine & Health**

First Place

Jonathan Snedeker 12th grade
Combined Inhibition of Wee1 and Parp1/2 as a Novel Therapy for Acute Myeloid Leukemia
 Fairview High School Boulder

Second Place

Sirey Zhang 11th grade
Multiarray Data Analysis to Map the Cellular Interaction in a Mouse Model of Familial ALS
 Cherry Creek High School Greenwood Village

Third Place

Alison Weinberger 11th grade
Is Homeopathy More Than A Placebo? Assessing Homeopathic Principles Using A Fruit Fly Model
 Cherry Creek High School Greenwood Village

Fourth Place

Hari Sowrirajan 9th grade
Nanoparticle-Induced Macrophage Atherogenesis
 Cherry Creek High School Greenwood Village

Honorable Mention

Madeline Goosman 11th grade
Mandarin Tone Perception in Simulations of Electro-Acoustic and Cochlear-Implant Hearing
 Fairview High School Boulder

Honorable Mention

Jayden Durbin 12th grade
Vitamin D Stimulates the mRNA Expression of ACPP in LNCaP Cells
 Haxtun High School Haxtun

**Junior Division
 Microbiology**

First Place

Taylor Dower 8th grade
Playground Bacterial Levels Comparison
 Turner Middle School Berthoud

Second Place

Madison Searles 7th grade
A Comparison of Antibacterial Hand Cleansing Solutions and Their Effectiveness on Killing Bacteria
 STEM Academy Highlands Ranch

Third Place

Camryn Haines 8th grade
 Sophie Supernor 8th grade
Dirty Dollar
 Knowledge Quest Academy Milliken

Fourth Place

Dominique Bear 8th grade
 Lilly Kinsella 8th grade
School Scare
 Knowledge Quest Academy Milliken

Honorable Mention

Nicholas Entin 8th grade
Bacterial Growth Inhibition
 Peak to Peak Charter School Lafayette

**Senior Division
 Microbiology**

First Place

Logan Collins 12th grade
An RK2 Mediated Bacterial Conjugation Delivery System for Artificial Genes Coding for Antimicrobial Polypeptides: A Novel Synthetic Biology Approach to Antibiotic Resistance
 Fairview High School Boulder

Second Place

Rebecca Bloomfield 10th grade
Competence Dependent Chemotaxis and Genomic Repair in Acinetobacter baylyi
 Palmer High School Colorado Springs

Third Place

Anit Tyagi 9th grade
Diurnal Variation of E. coli in an Urban Stream
 Cherry Creek High School Greenwood Village

Fourth Place

Jordan Nahabetian 12th grade
 Riley Scroeder 12th grade
 Abby Timmermeyer 12th grade
Rocky Waters Filtration
 Sand Creek High School Colorado Springs

Honorable Mention

Eileen Xia 10th grade
Phosphatidylinositol-3 Kinase p110a Isoform Inhibits
Antibody Switch
 Cherry Creek High School Greenwood Village

**Junior Division
Physics**

First Place

Brendan Gould 7th grade
Analyzing the Effects of Various Materials on a Magnetic Field
 The Classical Academy Colorado Springs

Second Place

John Quinn 8th grade
Wind, Wings, and Lift
 Summit Charter Middle School Boulder

Third Place

Connor Voss 8th grade
Loop the Loop: Rollercoaster Physics
 Beulah School of Natural Sciences Beulah

Fourth Place

Dylan Jessen 7th grade
The Effect of Voltage, Vacuum and Anode Material on Electron Acceleration
 American Academy Castle Pines

Honorable Mention

Adam Vagle 7th grade
Avoiding Armageddon
 Stanley British Primary School Denver

Honorable Mention

Jonathan Ballard 8th grade
Precision of an Ultrasonic Sensor
 Eaton Middle School Eaton

Honorable Mention

Asher Hogan 7th grade
Sound Trap
 The Classical Academy Colorado Springs

Honorable Mention

Paige Newman 7th grade
The Effect of Air Pressure on Different Brands of Duct Tape
 North Arvada Middle School Arvada

**Senior Division
Physics**

First Place

Sam Scheeres 12th grade
Rigorous Constraints on Exchange for the 3-body Problem
 Fairview High School Boulder

Second Place

Haley Weinstein 11th grade
Analyzing Different Methods of Finding the Force at General Yield in Sub-sized Charpy Testing
 Fairview High School Boulder

Third Place

Daniel Sidman 9th grade
Radiant Heat 3 2 1 . . . Ignition
 Palmer High School Colorado Springs

Fourth Place

Emma Frantz 12th grade
Harnessing the Marangoni Effect
 Palmer High School Colorado Springs

Honorable Mention

Thomas Manuel 9th grade
Slow a Bullet To Save a Life
 Walsh Jr/Sr High School Walsh

Honorable Mention

Ben Sheffer 11th grade
The Effects of Electron Beam Dose on the Visible Spectroscopic Signatures of Thin C60 Films
 Eaglecrest High School Centennial

**Junior Division
Plant Sciences**

First Place

Alicia Wu 8th grade
The Acidulous Truth About the Flora of Our Environment
 Summit Charter Middle School Boulder

Second Place

Sarah Duzenack 6th grade
A Comparison of Endomycorrhizae and Commercial Fertilizer on Bent and Blue Grass
 La Veta Jr/Sr High School La Veta

Third Place

Clay Kimberling 7th grade
Stop the Mold
 Sargent Jr/Sr High School Monte Vista

Fourth Place

Riley Ruff 7th grade
Battle of the Elements: Water vs. Earth
 North Arvada Middle School Arvada

Honorable Mention

Tyson Lichty 8th grade
All Hail! Hail Resistance?
 Liberty School Joes

Honorable Mention

Soneva Scott 7th grade
Aquaponic Growth Speed vs Soil Growth Speed
 STEM Academy Highlands Ranch

**Senior Division
Plant Sciences**

First Place

Jessica Shand 10th grade
*Analysis of Spermatophyte Divergence to Expedite
Identification of Novel Drug Candidates*
Discovery Canyon Campus Colorado Springs

Second Place

Mitchell Fosdick 10th grade
*Phase III: Further Identification of Isolated Green Fuel
Compounds.*
Fowler High School Fowler

Third Place

Kaixin Cui 11th grade
*Evolutionary Analysis of Cestrum in the Antilles Based on
Phylogenetic Relationships and Time Axis*
Fairview High School Boulder

Fourth Place

Shlok Rathi 9th grade
Antioxidant Activities in Colored Potato Tubers
Alamosa High School Alamosa

Honorable Mention

Abbey Brower 10th grade
Utilizing Crop Rotation for Nutrient Replacement
Sterling High School Sterling

2015 Colorado Science and Engineering Fair

Special Awards Press Release

Colorado Science and Engineering Fair

Poster Art Contest Award

Morgan Voss
 \$100, certificate
 Beulah School of Natural Sciences Beulah

Ralph Desch Memorial Technical Writing Award

Margaret Preigh 12th grade
 \$100, certificate
 Fairview High School Boulder
*Pulsing Electromagnetic Radiation at 50/60Hz as a Pest
 Repellant in Insects*

Student Choice Award

Kaybree Keating 8th grade
 Emilee Wells 6th grade
 Kaytlyn Keating 6th grade
 \$100, trophy, certificate
 Weldon Valley School Weldona
*Zapped Electro-Culture: The Effect of Electricity on
 Germination and Growth of Seedlings*

Student Choice Award

Stephen Parish 12th grade
 \$100, trophy, certificate
 Home School Colorado Springs
*Cyber Automated Report Linker (C.A.R.L): Minimizing
 Expansion of Catastrophic Cyber Infiltrations*

Pioneers of Science - Ada Lovelace

Avi Swartz 10th grade
 Tyler Giallanza 10th grade
 Ian Johnson 12th grade
 \$50, certificate
 Cherry Creek High School Greenwood Village
*Developing a Class Scheduling Program with Minimum
 Conflicts for Large Schools*

Pioneers of Science - Barbara McClintock

Emma Hackett 8th grade
 \$50, certificate
 St. Columba Catholic School Durango
Daily Dose

Pioneers of Science - Chien-Shiung Wu

Paige Newman 7th grade
 \$50, certificate
 North Arvada Middle School Arvada
The Effect of Air Pressure on Different Brands of Duct Tape

Pioneers of Science - Elizabeth Blackwell

Grace Varga 7th grade
 \$50, certificate
 American Academy Parker
*Brush It or Buzz It: The Comparison of Rotating and Vibrating
 Toothbrushes*

Pioneers of Science - Hedy Lamarr

Robin Bahrami 8th grade
 \$50, certificate
 Summit Charter Middle School Colorado Springs
*The Soundasaurus: Digital Sound Analysis Using Signal
 Processing Algorithms*

Pioneers of Science - Jocelyn Bell Burnell

William Highfill 6th grade
 \$50, certificate
 Corwin International Magnet Pueblo
Spoiled Rotten

Pioneers of Science - Lise Meitner

Nicole Miller 7th grade
 \$50, certificate
 Ortega Middle School Alamosa
Blue Bottle Blues

Pioneers of Science - Margaret Mead

Kale Hall 8th grade
 \$50, certificate
 Cortez Middle School Cortez
Put Me In, Coach

Pioneers of Science - Margaret Rossiter

Orian Wagers 7th grade
 \$50, certificate
 Woodlin School Woodrow
Turn Down That Sound

Pioneers of Science - Maria Goeppert-Mayer

Greg Watts 7th grade
 \$50, certificate
 Sargent Jr/Sr High School Monte Vista
Are All Pellets Created Equally?

Pioneers of Science - Nettie Stevens Award

Jacob Wright 8th grade
 \$50, certificate,
 Walsh Jr/Sr High School Walsh
Wind in My Mane

Pioneers of Science - Rachel Louise Carson

Katelynn Salmon 8th grade
 \$50, certificate
 Monument Academy Monument
Effect of Microbeads on Daphnia Heart Rate

Pioneers of Science - Rosalie Barrow Edge

Cassandra Blew 8th grade
 \$50, certificate
 La Veta Jr/Sr High School La Veta
*Beneath the Ashes: How to Reduce Flash Flooding Rates on
 Hydrophobic Soil Layers After a Fire*

Pioneers of Science - Rosalind Franklin

Jessica Fiala 8th grade
\$50, certificate
St. Columba Catholic School Durango
Disinfecting Power

Pioneers of Science - Sally Ride

Alexandra MacAskill 8th grade
\$50, certificate, poster of pioneer scientist
Holy Family Catholic School Grand Junction
Rock On!

Military

United States Air Force

US Air Force Award

Michael Nichols 8th grade
certificate, laptop backback, rotating flash drive, portable
earbuds, 4-port hub
Brush Middle School Brush
Predicting Aircraft Stealth with Light Waves

Isabel Kahler 8th grade
certificate, laptop backback, rotating flash drive, portable
earbuds, 4-port hub
Corwin International Magnet School Pueblo
Defying Gravity

Devin Conn 6th grade
certificate, laptop backback, rotating flash drive, portable
earbuds, 4-port hub
Corwin International Magnet School Pueblo
Sound Propagation Sensing in the Stratosphere

Sam Cuthbertson 12th grade
Jordan Hammer 12th grade
John Elliott 12th grade
certificate, messenger bag, card reader/writer, custom single
speaker, beta adapter set
Centaurus High School Lafayette
Phoenix Drone

Shepherd Kruse 10th grade
certificate, messenger bag, card reader/writer, custom single
speaker, beta adapter set
Home School Colorado Springs
*Designing and Evaluating an Aerospike Rocket Engine for
Increased Thrust*

United States Navy & Marine Corps

Office of Naval Research Award

Emhyr Subramanian 7th grade
certificate, medallion
Cherry Creek Challenge School Denver
*Potential Biodegradable Alternatives to Current
Petroleum-Based Surfactants for Oil Spill Cleanup*

Dovvie Knowlton 7th grade
certificate, medallion
Fowler Junior High School Fowler
Got Doggy Drool

Robin Bahrami 8th grade
certificate, medallion
Summit Charter Middle School Boulder
*The Soundasaurus: Digital Sound Analysis Using Signal
Processing Algorithms*

Avery Lin 7th grade
certificate, medallion
Stanley British Primary School Denver
*War on Waves: A Study of Different Coastal Defenses and
Their Effectiveness Against Tsunamis*

Cristian Granados 8th grade
certificate, medallion
North Middle School Colorado Springs
Put A Little Spring in Your Step

Connor Voss 8th grade
certificate, medallion
Beulah School of Natural Sciences Beulah
Loop the Loop: Rollercoaster Physics

Brendan Gould 7th grade
certificate, medallion
The Classical Academy Colorado Springs
Analyzing the Effects of Various Materials on a Magnetic Field

Trevor Jordan 11th grade
certificate, medallion, \$75 gift certificate
Animas High School Durango
A Wing of the Future: Part II

Logan Collins 12th grade
certificate, medallion, \$75 gift certificate
Fairview High School Boulder
*An RK2 Mediated Bacterial Conjugation Delivery System for
Artificial Genes Coding for Antimicrobial Polypeptides: A
Novel Synthetic Biology Approach to Antibiotic Resistance*

Max Markuson DiPrince 9th grade
certificate, medallion, \$75 gift certificate
Central High School Pueblo
*Windmill Efficiency: Using a 3D Printer to Engineer More
Efficient Windmill Blades*

Organizational

Air & Waste Management Association Rocky Mountain States Section

Dylan Duskocil 8th grade
\$100
Bayfield Middle school Bayfield
Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation

Bridgit Hebner 7th grade
\$100
American Academy Parker
*Clear as Mud: BPA Found in Water Bottles at Varying
Temperatures*

Vanessa Haggans 8th grade
\$50
Summit Charter Middle School Boulder
*Can I Drink It?: Backcountry Water Quality in Boulder County
and Its Safety for Runners*

Ruggles 11th grade
\$100
Center High School Center
Can We Recycle That?

Anne Cox 12th grade
\$50
Nederland Middle/Senior High Nederland
Modeled and Observed Coupling of Climate Change on Aedes aegypti

Mitchell Fosdick 10th grade
\$100
Fowler High School Fowler
Phase III: Further Identification of Isolated Green Fuel Compounds.

American Association of University Women

AAUW Award for Women in STEM

Aubree Rybacki 6th grade
\$100
Alta Vista Charter School Lamar
Oh! It's OPI

Mary Hood 11th grade
\$100
Sargent Jr/Sr High School Monte Vista
SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly

American Chemical Society Colorado Local Section

ACS Colorado Local Section Award

Shelly Steinert 11th grade
certificate, \$25
Sargent Jr/Sr High School Monte Vista
Determining Flame Retardancy of Maize Stover, Medicago Sativa, and Hordeum Vulgare Ash

Connor McCauley 7th grade
certificate, \$25
Blessed Sacrament Catholic Denver
Vitamin C in Vegetables

Rachelle Pierce 7th grade
certificate, \$25
Knowledge Quest Academy Milliken
Salt and Ice

Madison Luczak 7th grade
certificate, \$25
Windsor Charter Academy Windsor
Do You Have To See It To Believe?

Calista Law 7th grade
certificate, \$100
Boulder Country Day School Boulder
Eco-Plastics

Sofia Antal 11th grade
certificate, \$100
Cherry Creek High School Greenwood Village
Growth and Testing of New Cocrystals, Part 2

American Industrial Hygiene Association

Rocky Mountain Section

AIHA-RMS Excellence in Protection of Health & the Environment Award

Sam Duarte 7th grade
certificate
Quest Academy Dacono
Bagpipes and Earplugs: Should Great Highland Bagpipe Players Use Earplugs When Practicing?

Hari Sowrirajan 9th grade
\$100
Cherry Creek High School Greenwood Village
Nanoparticle-Induced Macrophage Atherogenesis

American Institute of Aeronautics and Astronautics, Rocky Mountain Section

AIAA Rocky Mountain Section Award

John Quinn 8th grade
arduino kit, 1-year AIAA student membership
Summit Charter Middle School Boulder
Wind, Wings, and Lift

Devin Conn 6th grade
arduino kit, 1-year AIAA student membership
Corwin International Magnet Pueblo
Sound Propagation Sensing in the Stratosphere

Shepherd Kruse 10th grade
arduino kit, 1-year AIAA student membership
Home School Colorado Springs
Designing and Evaluating an Aerospike Rocket Engine for Increased Thrust

Derrick Zaroni 10th grade
arduino kit, 1-year AIAA student membership
Silverton Schools Silverton
Multi-Purpose Robo Glove

American Institute of Chemical Engineers Rocky Mountain Section

Finn Stowers 8th grade
\$75
St. Columba Catholic School Durango
Frac Fluid Friction: Does Sand Grain Size Affect the Viscosity of Hydraulic Fracturing Fluid?

Jocelyn Sanchez 6th grade
\$100
Corwin International Magnet Pueblo
Candy Chromatography

Liam Foster 9th grade
\$75
Animas High School Durango
Testing the Water: A Review of Various Acid Mine Drainage Remediation Options

Sofia Antal 11th grade
\$100
Cherry Creek High School Greenwood Village
Growth and Testing of New Cocrystals, Part 2

**American Institute of Professional Geologists
Colorado Section**

AIPG Certificate of Excellence in the Geosciences

Joshua Miller 6th grade

\$100
Skinner Middle School Denver

What Type of Soil Best Supports a House During a Liquefaction Event?

Dylan Duskocil 8th grade

\$200
Bayfield Middle school Bayfield

Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation

Ivo Erben 11th grade

\$100
Boulder High School Boulder

The Effect of Climate on a Glacier's ELA and Ablation Gradient

Hannah deKay 10th grade

Raelen Barr 10th grade
\$200

Silverton Schools Silverton

Investigating Innovative Tools and Techniques for Heavy Metal Mapping in Historic Mining District

American Meteorological Society

Outstanding Achievement in Atmospheric Sciences

Elani Frantz 8th grade

Paige Lessig 8th grade
certificate, gift certificate

North Middle School Colorado Springs

What's the Weather Forecast in Space?

Casey Zhang 11th grade
certificate, gift certificate

Fairview High School Boulder

The QBO and Solar Cycle Modulation in the Lower Atmosphere

Jesse Zhang 12th grade
certificate, gift certificate

Fairview High School Boulder

Effect of the Atlantic Ocean on Sudden Stratospheric Warming

American Public Power Association

Demonstration of Energy Efficient Developments

DEED Energy & Efficiency Innovation Award

Alia Kraxberger 8th grade
\$50

Genoa-Hugo School Hugo

Number of Blades vs. Efficiency

Taylor Coons 12th grade
Dante Pacionek 12th grade
\$75

Nederland Middle/Senior High Nederland

The Ideal Energy Efficient Home: An Arduino Based Project

DEED Environmental Innovation Award

Luke Rohlwing 8th grade

\$50
American Academy Castle Pines

Solar Cell Jenga: Increasing Energy Capacity with Stacked Photovoltaic Solar Panels

Richard Mallory 11th grade
\$75

The Classical Academy College Colorado Springs

Hazardous Waste to Renewable Energy

**American Statistical Association,
Colorado/Wyoming Chapter**

David Young Memorial Award

Amelia Greene 8th grade

\$200, student membership in the American Statistical Association, acknowledgement at chapter spring meeting and on chapter web site

The Classical Academy Colorado Springs

Happy, Sad, Curious, Scared: Which Are You? Children's Emotional Response to Musical Chords & Varied Images

Michelle Kummel 9th grade

\$200, student membership in the American Statistical Association, acknowledgement at chapter spring meeting and on chapter web site

Palmer High School Colorado Springs

A Spoonful of Sugar Helps the Nitrate Go Down: Denitrification in Wetland Soil

**American Vacuum Society
Rocky Mountain Chapter**

Dylan Jessen 7th grade

\$50, \$50 to teacher/sponsor
American Academy Castle Pines

The Effect of Voltage, Vacuum and Anode Material on Electron Acceleration

Jordyn Hall 8th grade

\$100, \$100 to teacher/sponsor
Peak to Peak Charter School Lafayette

Temperamental Twisters

Emma Frantz 12th grade

\$50, \$50 to teacher/sponsor
Palmer High School Colorado Springs

Harnessing the Marangoni Effect

Sirisha Gudavalli 10th grade

\$100, \$100 to teacher/sponsor
Fairview High School Boulder

Chemical and Morphological Dependent Properties of Semiconductor Nanocrystals

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

Katelynn Salmon 8th grade
certificate, \$200

Monument Academy Monument

Effect of Microbeads on Daphnia Heart Rate

Emhyr Subramanian certificate, \$400 Cherry Creek Challenge School <i>Potential Biodegradable Alternatives to Current Petroleum-Based Surfactants for Oil Spill Cleanup</i>	7th grade Denver
Hannah Fischer certificate, \$200 Sierra Grande Jr/Sr High School <i>Pharmacoenviromentology: Developing a Baseline for PPCP Contaminant Levels at the MVNWR</i>	10th grade Blanca
Liam Foster certificate, \$400 Animas High School <i>Testing the Water: A Review of Various Acid Mine Drainage Remediation Options</i>	9th grade Durango

ASM International

ASM Materials Education Foundation Award

Haley Weinstein \$100 Fairview High School <i>Analyzing Different Methods of Finding the Force at General Yield in Sub-sized Charpy Testing</i>	11th grade Boulder
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Sirisha Gudavalli \$150 Fairview High School <i>Chemical and Morphological Dependent Properties of Semiconductor Nanocrystals</i>	10th grade Boulder
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Colorado Association of Meat Processors

Meat Science/Food Safety Award

Kaitlyn Dumm certificate, \$70 Windsor High School <i>Leftovers to Livestock: Turning Human Food Waste into Livestock Feed with Consistent Nutrient Values</i>	10th grade Windsor
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Colorado Association of Science Teachers

Grace Gulig \$75 Monument Academy <i>Keeping Soil in Its Place</i>	7th grade Monument
Madeline Steinle \$75 Trinity Lutheran School <i>The Effects of Aspartame on Cognitive Abilities</i>	8th grade Pueblo
Emma Scholz \$75 Sterling High School <i>Geographical Correlation Maps of Malaria Hemoglobin SS Disease Allele Frequency and Eco. of Ethiopia</i>	12th grade Sterling
Syree Gunnels \$75 Sargent Jr/Sr High School <i>Extraction of Health Benefiting Compounds in Colored Potato Tubers</i>	10th grade Monte Vista

Colorado Biology Teachers' Association

CBTA Best Biology Project Award

Kathryn Kummel certificate, \$75 North Middle School <i>The Danger of Drinking Water: How Mountain Lions Affect Elk Behavior and Aspen Regeneration</i>	6th grade Colorado Springs
Logan Collins certificate, \$75 Fairview High School <i>An RK2 Mediated Bacterial Conjugation Delivery System for Artificial Genes Coding for Antimicrobial Polypeptides: A Novel Synthetic Biology Approach to Antibiotic Resistance</i>	12th grade Boulder

Colorado BioScience Institute

BioGENEius Challenge

Jonathan Snedeker all-expense paid trip to compete at the US National competition held in Philadelphia, PA, June 2015 Fairview High School <i>Combined Inhibition of Wee1 and Parp1/2 as a Novel Therapy for Acute Myeloid Leukemia</i>	12th grade Boulder
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Colorado Chemistry Teachers Association

CCTA Chemistry Award

Richard Mallory \$100 The Classical Academy College <i>Hazardous Waste to Renewable Energy</i>	11th grade Colorado Springs
Connor McCauley \$100 Blessed Sacrament Catholic <i>Vitamin C in Vegetables</i>	7th grade Denver

Colorado Dental Association

Grace Varga \$50 gift card American Academy <i>Brush It or Buzz It: The Comparison of Rotating and Vibrating Toothbrushes</i>	7th grade Parker
Edwin Bodoni \$100 gift card Cherry Creek Challenge School <i>Dental Implants: The Healthier Alternative</i>	8th grade Denver
Dakota Cook \$50 gift card Walsh Jr/Sr High School <i>Dental Disintegration</i>	8th grade Walsh
Jenner Dunn Julia Mathews 2 \$50 gift cards Brush High School <i>The Effects of Citric and Phosphoric Acid on Tooth Enamel</i>	9th grade 9th grade Brush

Colorado Division of Reclamation, Mining & Safety

Outstanding Earth Science Award

Dylan Dorskocil \$75 Bayfield Middle school <i>Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation</i>	8th grade Bayfield
Liam Foster \$75 Animas High School <i>Testing the Water: A Review of Various Acid Mine Drainage Remediation Options</i>	9th grade Durango

Colorado Environmental Health Association

Emhyr Subramanian \$75, framed certificate Cherry Creek Challenge School <i>Potential Biodegradable Alternatives to Current Petroleum-Based Surfactants for Oil Spill Cleanup</i>	7th grade Denver
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Hannah Fischer \$150, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference Sierra Grande Jr/Sr High School <i>Pharmacoenvironmentology: Developing a Baseline for PPCP Contaminant Levels at the MVNWR</i>	10th grade Blanca
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Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Dylan Dorskocil \$50, certificate Bayfield Middle school <i>Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation</i>	8th grade Bayfield
Lacey Niccoli \$50, certificate Liberty School <i>Denatured: The Effects of pH on Germination</i>	8th grade Joes
Syree Gunnels \$50, certificate Sargent Jr/Sr High School <i>Extraction of Health Benefiting Compounds in Colored Potato Tubers</i>	10th grade Monte Vista
Margaret Preigh \$50, certificate Fairview High School <i>Pulsing Electromagnetic Radiation at 50/60Hz as a Pest Repellant in Insects</i>	12th grade Boulder

Colorado Geographic Alliance

CGA Application of Geography Award

Kelsey Brethauer \$100 Windsor Charter Academy <i>Bad Beads</i>	7th grade Windsor
Emma Scholz \$100 Sterling High School <i>Geographical Correlation Maps of Malaria Hemoglobin SS Disease Allele Frequency and Eco. of Ethiopia</i>	12th grade Sterling

Colorado Medical Society

CMS Education Foundation Award

Jayden Durbin \$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 Haxtun High School <i>Vitamin D Stimulates the mRNA Expression of ACPP in LNCaP Cells</i>	12th grade Haxtun
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Laura Clark \$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 St. Columba Catholic School <i>Paper Microfluidics: Medical Diagnostics for the Developing World</i>	7th grade Durango
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Colorado Mineral Society

Best Earth Science Award

Max Warnock \$35, mineral specimen, book, certificate Home School <i>Testing the Viking Sunstone Legend</i>	7th grade Fort Collins
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Cassandra Blew \$50, mineral specimen, book, certificate La Veta Jr/Sr High School <i>Beneath the Ashes: How to Reduce Flash Flooding Rates on Hydrophobic Soil Layers After a Fire</i>	8th grade La Veta
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Wyatt Wienen \$35, mineral specimen, book, certificate Trinidad High School <i>Expanding Clays</i>	9th grade Trinidad
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Hannah deKay Raelen Barr \$50, mineral specimen, book, certificate Silverton Schools <i>Investigating Innovative Tools and Techniques for Heavy Metal Mapping in Historic Mining District</i>	10th grade 10th grade Silverton
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Colorado Mycological Society

Mycological Award

Dylan Dorskocil \$50, CMS honorary membership certificate, signed copy of Vera Evenson's "Rocky Mountain Mushrooms" book (to be mailed) Bayfield Middle school <i>Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation</i>	8th grade Bayfield
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Colorado Scientific Society

Dylan Dorskocil \$50 Bayfield Middle school <i>Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation</i>	8th grade Bayfield
Antonio Campos \$75 Cherry Creek Challenge School <i>Why Is Venice Sinking?</i>	8th grade Denver

Liam Foster 9th grade
\$75
Animas High School Durango
Testing the Water: A Review of Various Acid Mine Drainage Remediation Options

Hannah deKay 10th grade
Raelen Barr 10th grade
\$100
Silverton Schools Silverton
Investigating Innovative Tools and Techniques for Heavy Metal Mapping in Historic Mining District

**Colorado State University
College of Agricultural Sciences**

Innovations in the Science of Agriculture Award
Calista Law 7th grade
\$500
Boulder Country Day School Boulder
Eco-Plastics
Mitchell Fosdick 10th grade
\$500
Fowler High School Fowler
Phase III: Further Identification of Isolated Green Fuel Compounds.

Colorado State University

Dept. of Biochemistry & Molecular Biology

Jonathan Snedeker 12th grade
certificate, \$100
Fairview High School Boulder
Combined Inhibition of Wee1 and Parp1/2 as a Novel Therapy for Acute Myeloid Leukemia

**Colorado State University
Dept. of Chemistry**

Nicole Miller 7th grade
certificate, \$100
Ortega Middle School Alamosa
Blue Bottle Blues
Richard Mallory 11th grade
certificate, \$100
The Classical Academy College Colorado Springs
Hazardous Waste to Renewable Energy

Colorado State University

Dept. of Horticulture & Landscape Architecture

Sarah Duzenack 6th grade
\$100
La Veta Jr/Sr High School La Veta
A Comparison of Endomycorrhizae and Commercial Fertilizer on Bent and Blue Grass
Alicia Wu 8th grade
\$100
Summit Charter Middle School Boulder
The Acidulous Truth About the Flora of Our Environment

Kaixin Cui 11th grade
\$100
Fairview High School Boulder
*Evolutionary Analysis of *Cestrum* in the Antilles Based on Phylogenetic Relationships and Time Axis*

Syree Gunnels 10th grade
\$100
Sargent Jr/Sr High School Monte Vista
Extraction of Health Benefiting Compounds in Colored Potato Tubers

**Colorado State University
Energy Institute
Energy Achievement Award**

Kelsey Lindbloom 11th grade
certificate, \$500, invitation to present at the Spark! Experience Energy: Colorado on the Cutting Edge of Energy Innovation event on April 15, 2015
Salida High School Salida
Fueling the Future Phase 4: Constructing an Aqueous Vehicle Powered by a Microbial Fuel Cell

**Colorado State University
School of Biomedical Engineering**

Excellence in Biomedical Engineering Award

Jonathan Snedeker 12th grade
certificate, gift bag
Fairview High School Boulder
Combined Inhibition of Wee1 and Parp1/2 as a Novel Therapy for Acute Myeloid Leukemia

Jayden Durbin 12th grade
certificate, gift bag
Haxtun High School Haxtun
Vitamin D Stimulates the mRNA Expression of ACPP in LNCaP Cells

Logan Collins 12th grade
certificate, gift bag, \$50 gift bag
Fairview High School Boulder
An RK2 Mediated Bacterial Conjugation Delivery System for Artificial Genes Coding for Antimicrobial Polypeptides: A Novel Synthetic Biology Approach to Antibiotic Resistance

**Colorado Veterinary Medical Association
Veterinary Science Award**

Jacob Wright 8th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate
Walsh Jr/Sr High School Walsh
Wind in My Mane

Haleigh Prosser 9th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate
Wiley School Wiley
Cowcium: Effects of Calcium Citrate in Cattle Fed Wet Distillers' Grains Rations

Colorado's Touchstone Energy Cooperatives

The Colorado EnergyWise Award

Noah Rainer	8th grade
Megan Harmon	8th grade
\$250	
Cortez Middle School	Cortez
<i>Harvesting the Sun</i>	
Taylor Coons	12th grade
Dante Pasioneck	12th grade
\$250	
Nederland Middle/Senior High	Nederland
<i>The Ideal Energy Efficient Home: An Arduino Based Project</i>	

Colorado-Wyoming Society of American Foresters

Society of American Foresters Excellence in Forestry Research Award

Lexy Riggo-Guadagnoli	7th grade
\$100	
La Veta Jr/Sr High School	La Veta
<i>Investigating and Antimicrobial Properties of Abies concolor on Staphylococcus aureus and Streptococcus</i>	
Isaac Jordan	9th grade
\$100	
Animas High School	Durango
<i>Save the World, Bomb the Forest</i>	

Comstock Family

Heather Comstock Memorial Award

Logan Collins	12th grade
\$300	
Fairview High School	Boulder
<i>An RK2 Mediated Bacterial Conjugation Delivery System for Artificial Genes Coding for Antimicrobial Polypeptides: A Novel Synthetic Biology Approach to Antibiotic Resistance</i>	

Constant Family

Constant Family Award for Excellence in Computer Science

Molly Nehring	8th grade
\$100, certificate, 8 Gb flash drive	
Monte Vista Middle School	Monte Vista
<i>Genetic Algorithms: Solving Math Problems Using Ideas from Nature</i>	
Avi Swartz	10th grade
Tyler Giallanza	10th grade
Ian Johnson	12th grade
\$150, certificate, 16 Gb flash drive	
Cherry Creek High School	Greenwood Village
<i>Developing a Class Scheduling Program with Minimum Conflicts for Large Schools</i>	

Eppler Family

Eppler Family Award

Victoria Dunivan	8th grade
microprocessor kit & digital multimeter (value \$100)	
Walsh Jr/Sr High School	Walsh
<i>Dealing with Diabetes</i>	

Cristian Granados	8th grade
microprocessor kit & digital multimeter (value \$100)	
North Middle School	Colorado Springs
<i>Put A Little Spring in Your Step</i>	

Fort Collins Conservation District

Steven Smith	7th grade
plaque, \$50	
The Classical Academy	Colorado Springs
<i>Best Mulch for the Money</i>	
Isaac Jordan	9th grade
plaque, \$50	
Animas High School	Durango
<i>Save the World, Bomb the Forest</i>	

Frank Armbruster Foundation

Armbruster Memorial Award

Jamison White	8th grade
\$100	
Blevins Middle School	Fort Collins
<i>Flight Made Simple</i>	

Geological Society of America

GSA Awards in Environmental Geology

Jordyn Hall	8th grade
plaque, GSA membership, 2015 GSA calendar, GSA photo scale	
Peak to Peak Charter School	Lafayette
<i>Temperamental Twisters</i>	
Isaac Jordan	9th grade
plaque, GSA membership, 2015 GASA calendar, GSA photo scale, Rite in the Rain spiral notebook, Rite in the Rain all weather pen	
Animas High School	Durango
<i>Save the World, Bomb the Forest</i>	

GSA Awards in Environmental Geology

Ivo Erben	11th grade
plaque, GSA membership, 2015 GSA calendar, GSA photo scale, The Geoscientists Handbook, Rite in the Rain spiral notebook, Rite in the Rain all weather pen	
Boulder High School	Boulder
<i>The Effect of Climate on a Glacier's ELA and Ablation Gradient</i>	

Gromko Family

Gerald Gromko Memorial Award

Shepherd Kruse	10th grade
\$150	
Home School	Colorado Springs
<i>Designing and Evaluating an Aerospike Rocket Engine for Increased Thrust</i>	

Human Factors and Ergonomics Society

Rocky Mountain Chapter

Mary Hood	11th grade
\$100	
Sargent Jr/Sr High School	Monte Vista
<i>SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly</i>	

Institute of Electrical & Electronics Engineers High Plains Section

Cristian Granados 8th grade
SparkFun Inventor's Kit, invitation to an IEEE meeting
North Middle School Colorado Springs
Put A Little Spring in Your Step

Mary Hood 11th grade
SprakFun Inventor's Kit, Raspberry Pi 2 Computer, invitation
to an IEEE meeting
Sargent Jr/Sr High School Monte Vista
*SMART Cane: A Technology Integrated Device to Reduce the
Fall Susceptibility of the Elderly*

Little Shop of Physics

Matthew McCausland Memorial Award

Jordyn Hall 8th grade
science "stuff" (value \$100)
Peak to Peak Charter School Lafayette
Temperamental Twisters

Nate Stryker 8th grade
science "stuff" (value \$100)
Columbine Middle School Montrose
Household Hydraulics

Lockheed Martin

Noah Rainer 8th grade
Megan Harmon 8th grade
\$50
Cortez Middle School Cortez
Harvesting the Sun

Ben Sheffer 11th grade
\$100
Eaglecrest High School Centennial
*The Effects of Electron Beam Dose on the Visible Spectroscopic
Signatures of Thin C60 Films*

National Centers for Environmental Information

NCEI Award of Scientific Achievement

Avery Lin 7th grade
\$50 money order, certificate
Stanley British Primary School Denver
*War on Waves: A Study of Different Coastal Defenses and
Their Effectiveness Against Tsunamis*

Rocky Mountain Association of Geologists

Antonio Campos 8th grade
cash award
Cherry Creek Challenge School Denver
Why Is Venice Sinking?

Max Warnock 7th grade
cash award
Home School Fort Collins
Testing the Viking Sunstone Legend

Ivo Erben 11th grade
cash award
Boulder High School Boulder
*The Effect of Climate on a Glacier's ELA and Ablation
Gradient*

SACNAS, Colorado State University Chapter

SACNAS CSU - Rising Young Scientist Award

Anu Khanna 11th grade
\$50
Cherry Creek High School Greenwood Village
The Effects of an Ecological Stress on Generations of Plants

Maia Drugmand 8th grade
\$50
Peak to Peak Charter School Lafayette
Dirty Energy

Amy Hong 9th grade
\$50
Sand Creek High School Colorado Springs
The Effects of Ammonia on Plant Growth

Advaita Singh 8th grade
\$50
Cherry Creek Challenge School Denver
Effects of Ultraviolet Radiation on Planaria

Science Toy Magic, LLC

Science Toy Magic Classroom Demonstration Award

John Quinn 8th grade
\$100
Summit Charter Middle School Boulder
Wind, Wings, and Lift

Award
Mark Lenczycki 8th grade
\$50
Blevins Middle School Fort Collins
My Prosthetic Arm Extension

Society for Mining, Metallurgy, and Exploration Colorado Section

Steven Smith 7th grade
plaque, \$100
The Classical Academy Colorado Springs
Best Mulch for the Money

Dylan Daskocil 8th grade
plaque, \$200
Bayfield Middle school Bayfield
Biochar and Fungus to the Rescue: Acid Mine Soil Reclamation

Cassidy Plane 10th grade
plaque, \$200
Sargent Jr/Sr High School Monte Vista
More or Less

Hannah deKay 10th grade
Raelen Barr 10th grade
plaque, \$400
Silverton Schools Silverton
*Investigating Innovative Tools and Techniques for Heavy Metal
Mapping in Historic Mining District*

**Society of Manufacturing Engineers
Colorado Chapter 354**

Andy Keller Memorial Award

Ryan Tseng 10th grade
\$100, recognition by local chapter
Fairview High School Boulder
*The Pursuit of Sharpness: A Study on Composition and
Geometry of Cutting Instruments*

Ian Wilkins 12th grade
\$150, recognition by local chapter
Fairview High School Boulder
*Optimizing 3D CAD Scanning Algorithms Through
Multi-Sensor Data Input*

Trevor Jordan 11th grade
\$200, recognition by local chapter
Animas High School Durango
A Wing of the Future: Part II

**Society of Women Engineers
Rocky Mountain Section**

Isabel Kahler 8th grade
\$75
Corwin International Magnet Pueblo
Defying Gravity

Robin Bahrami 8th grade
\$100
Summit Charter Middle School Boulder
*The Soundasaurus: Digital Sound Analysis Using Signal
Processing Algorithms*

Haley Weinstein 11th grade
\$75
Fairview High School Boulder
*Analyzing Different Methods of Finding the Force at General
Yield in Sub-sized Charpy Testing*

Mary Hood 11th grade
\$100
Sargent Jr/Sr High School Monte Vista
*SMART Cane: A Technology Integrated Device to Reduce the
Fall Susceptibility of the Elderly*

**Soil & Water Conservation Society
Colorado Chapter**

Katie McCall 8th grade
certificate, \$100
Walsh Jr/Sr High School Walsh
*Natural Fertilizing: Observing Wheat Growth with Different
Manure*

Cassidy Plane 10th grade
certificate, \$100
Sargent Jr/Sr High School Monte Vista
More or Less

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

SPIE Optics and Photonics Science Fair Award

Luke Rohlwing 8th grade
\$50
American Academy Castle Pines
*Solar Cell Jenga: Increasing Energy Capacity with Stacked
Photovoltaic Solar Panels*

Max Warnock 7th grade
\$100
Home School Fort Collins
Testing the Viking Sunstone Legend

Sara Nehring 6th grade
\$150
Monte Vista Middle School Monte Vista
The Moon Is So Bright: Do You Need Sunglasses at Night?

Sirisha Gudavalli 10th grade
\$100
Fairview High School Boulder
*Chemical and Morphological Dependent Properties of
Semiconductor Nanocrystals*

Ian Wilkins 12th grade
\$150
Fairview High School Boulder
*Optimizing 3D CAD Scanning Algorithms Through
Multi-Sensor Data Input*

Ben Sheffer 11th grade
\$250
Eaglecrest High School Centennial
*The Effects of Electron Beam Dose on the Visible Spectroscopic
Signatures of Thin C60 Films*

The Aquaponic Source

*The Aquaponic Source's Innovation in Aquaponics
Award*

Makayla Windholz 8th grade
Aquaponicals aquaponic growing system (\$150 value)
Imagine Charter School Firestone
Growing with Aquaponics vs. Hydroponics

The Inventor's Roundtable

Inventors' Roundtable Award

Mary Hood 11th grade
\$100, free patent search (value \$499)
Sargent Jr/Sr High School Monte Vista
*SMART Cane: A Technology Integrated Device to Reduce the
Fall Susceptibility of the Elderly*

Trout Unlimited

Trout Unlimited Conservation Award

Tara Suppes 12th grade
\$75
Delta High School Delta
Analysis on Stream Temperature Variation

Katelynn Salmon 8th grade
\$125
Monument Academy Monument
Effect of Microbeads on Daphnia Heart Rate

Hannah Fischer 10th grade
\$200
Sierra Grande Jr/Sr High School Blanca
*Pharmacoenvironmentology: Developing a Baseline for PPCP
Contaminant Levels at the MVNWR*

United States Department of Commerce
*Department of Commerce Award for Excellence in
Science and Engineering*

Stephen Parish 12th grade
alternate for the opportunity for summer employment with the
Department of Commerce
Home School Colorado Springs
*Cyber Automated Report Linker (C.A.R.L): Minimizing
Expansion of Catastrophic Cyber Infiltrations*

Ian Wilkins 12th grade
the opportunity for summer employment with the Department
of Commerce with the possibility for future continuing
employment
Fairview High School Boulder
*Optimizing 3D CAD Scanning Algorithms Through
Multi-Sensor Data Input*

United States Geological Survey
*USGS Excellence in Geological or Water Research
Award*

Joshua Miller 6th grade
reference book, mineral specimen
Skinner Middle School Denver
*What Type of Soil Best Supports a House During a Liquefaction
Event?*

Michelle Kummel 9th grade
reference book, mineral specimen
Palmer High School Colorado Springs
*A Spoonful of Sugar Helps the Nitrate Go Down:
Denitrification in Wetland Soil*

University of Colorado, Denver

Medical Scientist Training Program Award

Laura Clark 7th grade
\$50
St. Columba Catholic School Durango
*Paper Microfluidics: Medical Diagnostics for the Developing
World*

Casey Shaw 9th grade
\$50
Liberty School Joes
*Arrested Development: Glyphosate-Based Herbicides on the
Embryonic Development of Zebra Danios*

University of Northern Colorado

MAST Institute Award

Jack Stade 8th grade
\$50
Nevin Platt Middle School Boulder
Modeling Parasitic Relations Using Computer Models

Kevyn Kelso 10th grade
\$50
The Classical Academy Colorado Springs
Automatic Trombone Tuner

Vaughan Web Works, LLC

*Glissmann Family Award for Best Use of Computer
Program Development*

Molly Nehring 8th grade
\$50
Monte Vista Middle School Monte Vista
*Genetic Algorithms: Solving Math Problems Using Ideas from
Nature*

Stephen Parish 12th grade
\$100
Home School Colorado Springs
*Cyber Automated Report Linker (C.A.R.L): Minimizing
Expansion of Catastrophic Cyber Infiltrations*

Wojtaszek Family

Paul Wojtaszek Memorial Award

Jayden Durbin 12th grade
\$300
Haxtun High School Haxtun
*Vitamin D Stimulates the mRNA Expression of ACPP in LNCaP
Cells*

Women in Physics

Colorado State University Chapter

Promising Young Woman in Science Award

Isabel Kahler 8th grade
\$50
Corwin International Magnet Pueblo
Defying Gravity

Zonta Club of Boulder County

Amelia Earhart Award

Elani Frantz 8th grade
Paige Lessig 8th grade
certificate, \$100
North Middle School Colorado Springs
What's the Weather Forecast in Space?

Scholarships

Adams State University

Adams State University Scholarships

Merritt Singley 11th grade
ASU scholarship valued as the equivalent to one-year resident
tuition and fees (~\$8,500)
Brush High School Brush
*The Influence of Omega-3 Fatty Acids on Lipid Microdomains
Obtained from Bovine Luteal Cells*

Sarena Wells 12th grade
ASU scholarship valued as the equivalent to one-year resident
tuition and fees (~\$8,500)
Fort Morgan High School Fort Morgan
Frustration Responses: An Analysis of Dispositional Learning

Shelly Steinert 11th grade
ASU scholarship valued as the equivalent to one-year resident
tuition and fees (~\$8,500)
Sargent Jr/Sr High School Monte Vista
*Determining Flame Retardancy of Maize Stover, Medicago
Sativa, and Hordeum Vulgare Ash*

Wyatt Wiening 9th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Trinidad High School Trinidad
Expanding Clays

Kelsey Lindbloom 11th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Salida High School Salida
*Fueling the Future Phase 4: Constructing an Aqueous Vehicle
 Powered by a Microbial Fuel Cell*

Brandon Navratil 11th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Animas High School Durango
Portable Conductivity Probe

Jessalyn Bay-Voit 10th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Durango High School Durango
Fire Ready OR Not?

Derrick Zanoni 10th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Silverton Schools Silverton
Multi-Purpose Robo Glove

Collin Leonard 10th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Springfield Jr/Sr High School Springfield
Gatorade's Effect on Heart Rate

Rebecca Bloomfield 10th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Palmer High School Colorado Springs
*Competence Dependent Chemotaxis and Genomic Repair in
 Acinetobacter baylyi*

Gabriella Tolan 11th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Brush High School Brush
*Vertical Motion to Rotational Movement of a Rectangular
 Wing*

Joel Wagner 10th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Arickaree School Anton
Effects of Water Contaminants on Plants

Aubrey Wells 10th grade
 Kaitlin Wells 9th grade
 ASU scholarship valued as the equivalent to one-year resident
 tuition and fees (~\$8,500)
 Fort Morgan High School Fort Morgan
*Electromagnetic Spectrum: Absorption Measurements and
 Their Applications to Energy Analysis*

Colorado School of Mines

Mines CSEF Scholarship

Trevor Jordan 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Animas High School Durango
A Wing of the Future: Part II

Madeline Goosman 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Fairview High School Boulder
*Mandarin Tone Perception in Simulations of Electro-Acoustic
 and Cochlear-Implant Hearing*

Haley Weinstein 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Fairview High School Boulder
*Analyzing Different Methods of Finding the Force at General
 Yield in Sub-sized Charpy Testing*

Mary Hood 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Sargent Jr/Sr High School Monte Vista
*SMART Cane: A Technology Integrated Device to Reduce the
 Fall Susceptibility of the Elderly*

Brandon Navratil 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Animas High School Durango
Portable Conductivity Probe

Hannah Langford 11th grade
 Molly Dickinson 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Animas High School Durango
The Effects of Technology on Teenagers' Sleep Patterns

Emily Zislis 11th grade
 \$1,000 CSM scholarship, renewable for up to 3 additional years
 for use toward an undergraduate degree)
 Cherry Creek High School Greenwood Village
*The Effect of Genetically Modified Soybean Consumption on
 Mouse Weight*

Colorado State University

College of Natural Sciences Scholarship

Mary Hood 11th grade
 \$1,000 renewable scholarship to attend CSU
 Sargent Jr/Sr High School Monte Vista
*SMART Cane: A Technology Integrated Device to Reduce the
 Fall Susceptibility of the Elderly*

Logan Collins 12th grade
 \$1,000 renewable scholarship to attend CSU
 Fairview High School Boulder
*An RK2 Mediated Bacterial Conjugation Delivery System for
 Artificial Genes Coding for Antimicrobial Polypeptides: A
 Novel Synthetic Biology Approach to Antibiotic Resistance*

Elliot Gorokhovsky 10th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
A Novel Algorithm for Model Counting

Sam Scheeres 12th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Rigorous Constraints on Exchange for the 3-body Problem

Colorado State University Scholarship

Margaret Preigh 12th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Pulsing Electromagnetic Radiation at 50/60Hz as a Pest Repellant in Insects

Serena Rusk 11th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
An Analysis of Risk Factors for Developing Low Body Satisfaction in Adolescents

Sirisha Gudavalli 10th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Chemical and Morphological Dependent Properties of Semiconductor Nanocrystals

Jesse Zhang 12th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Effect of the Atlantic Ocean on Sudden Stratospheric Warming

Trevor Jordan 11th grade
\$1,000 renewable scholarship to attend CSU
Animas High School Durango
A Wing of the Future: Part II

Mary Hood 11th grade
\$1,000 renewable scholarship to attend CSU
Sargent Jr/Sr High School Monte Vista
SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly

Hannah Hartung 12th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Effects of Parasites from Long Term Invasive Fish on Native Amphibians in the California Bay Area

Elliot Gorokhovsky 10th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
A Novel Algorithm for Model Counting

Jonathan Snedeker 12th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Combined Inhibition of Wee1 and Parp1/2 as a Novel Therapy for Acute Myeloid Leukemia

Sam Scheeres 12th grade
\$1,000 renewable scholarship to attend CSU
Fairview High School Boulder
Rigorous Constraints on Exchange for the 3-body Problem

Jessica Shand 10th grade
\$1,000 renewable scholarship to attend CSU
Discovery Canyon Campus Colorado Springs
Analysis of Spermatophyte Divergence to Expedite Identification of Novel Drug Candidates

Colorado State University, Pueblo

Colorado State University, Pueblo Scholarship

Kelsey Lindbloom 11th grade
\$1,000 scholarship to attend CSU, Pueblo
Salida High School Salida
Fueling the Future Phase 4: Constructing an Aqueous Vehicle Powered by a Microbial Fuel Cell

University of Colorado, Boulder

College of Engineering and Applied Sciences Scholarships

Molly Nehring 8th grade
4-year \$500 scholarship
Monte Vista Middle School Monte Vista
Genetic Algorithms: Solving Math Problems Using Ideas from Nature

Michelle Kummel 9th grade
4-year \$500 scholarship
Palmer High School Colorado Springs
A Spoonful of Sugar Helps the Nitrate Go Down: Denitrification in Wetland Soil

Sirisha Gudavalli 10th grade
4-year \$500 scholarship
Fairview High School Boulder
Chemical and Morphological Dependent Properties of Semiconductor Nanocrystals

Mary Hood 11th grade
4-year \$500 scholarship
Sargent Jr/Sr High School Monte Vista
SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly

Haley Weinstein 11th grade
4-year \$500 scholarship
Fairview High School Boulder
Analyzing Different Methods of Finding the Force at General Yield in Sub-sized Charpy Testing

Madeline Goosman 11th grade
4-year \$500 scholarship
Fairview High School Boulder
Mandarin Tone Perception in Simulations of Electro-Acoustic and Cochlear-Implant Hearing

Shelly Steinert 11th grade
4-year \$500 scholarship
Sargent Jr/Sr High School Monte Vista
Determining Flame Retardancy of Maize Stover, Medicago Sativa, and Hordeum Vulgare Ash

Areefa Rahman 11th grade
4-year \$500 scholarship
Cherry Creek High School Greenwood Village
Saving the World with One Feather at a Time: The Amalgamation of Polymers using Chicken Feathers

SSP

American Psychological Association

Achievement in Research in Psychological Science
Caroline Jennings 8th grade
certificate
The Classical Academy Colorado Springs
Ask Me Twice
Serena Rusk 11th grade
certificate
Fairview High School Boulder
*An Analysis of Risk Factors for Developing Low Body
Satisfaction in Adolescents*

Arizona State University**Walton Sustainability Solutions Initiatives***ASU Walton Sustainability Solutions Award*

Liam Foster 9th grade
certificate, entry for Grand Prize of a trip to Arizona for the
2016 Sustainability Solutions Festival (entries must be mailed
by May 1, 2015 to be eligible)
Animas High School Durango
*Testing the Water: A Review of Various Acid Mine Drainage
Remediation Options*
Hannah Fischer 10th grade
certificate, entry for Grand Prize of a trip to Arizona for the
2016 Sustainability Solutions Festival (entries must be mailed
by May 1, 2015 to be eligible)
Sierra Grande Jr/Sr High School Blanca
*Pharmacoenvironmentology: Developing a Baseline for PPCP
Contaminant Levels at the MVNWR*

Casey Shaw 9th grade
certificate, entry for Grand Prize of a trip to Arizona for the
2016 Sustainability Solutions Festival (entries must be mailed
by May 1, 2015 to be eligible)
Liberty School Joes
*Arrested Development: Glyphosate-Based Herbicides on the
Embryonic Development of Zebra Danios*

Hannah deKay 10th grade
Raelen Barr 10th grade
certificate, entry for Grand Prize of a trip to Arizona for the
2016 Sustainability Solutions Festival (entries must be mailed
by May 1, 2015 to be eligible)
Silverton Schools Silverton
*Investigating Innovative Tools and Techniques for Heavy Metal
Mapping in Historic Mining District*

ASM Materials Education Foundation*Most Outstanding Exhibit in Materials Science*

Emhyr Subramanian 7th grade
certificate, medallion (to be mailed)
Cherry Creek Challenge School Denver
*Potential Biodegradable Alternatives to Current
Petroleum-Based Surfactants for Oil Spill Cleanup*
Sirisha Gudavalli 10th grade
certificate, medallion (to be mailed)
Fairview High School Boulder
*Chemical and Morphological Dependent Properties of
Semiconductor Nanocrystals*

Association for Women Geoscientists*Student Awards for Geoscience Excellence*

Jordyn Hall 8th grade
certificate
Peak to Peak Charter School Lafayette
Temperamental Twisters
MaKayla Hofner 9th grade
certificate
Woodlin School Woodrow
A Gas More Toxic: A Study of Radon in Households

Broadcom MASTERS*National Middle School Science & Engineering Fair
Competition Nomination*

Kathryn Kummel 6th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
North Middle School Colorado Springs
*The Danger of Drinking Water: How Mountain Lions Affect Elk
Behavior and Aspen Regeneration*
Felix Channiago 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
West Jefferson Middle School Conifer
*The Effect of Temperature on Hunting Response Time of
Female Habronattus Jumping Spiders*
Caroline Jennings 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
The Classical Academy Colorado Springs
Ask Me Twice
Elora Smith 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Sargent Jr/Sr High School Monte Vista
The Sweet Smell of You
Emhyr Subramanian 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Cherry Creek Challenge School Denver
*Potential Biodegradable Alternatives to Current
Petroleum-Based Surfactants for Oil Spill Cleanup*
Calista Law 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Boulder Country Day School Boulder
Eco-Plastics
Sara Nehring 6th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Monte Vista Middle School Monte Vista
The Moon Is So Bright: Do You Need Sunglasses at Night?
Max Warnock 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Home School Fort Collins
Testing the Viking Sunstone Legend

Mark Bloomfield 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Holmes Middle School Colorado Springs
*Blow Out: Scaling Down Compressed Air Energy Storage for
Household Use*

Maia Drugmand 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Peak to Peak Charter School Lafayette
Dirty Energy

Cristian Granados 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
North Middle School Colorado Springs
Put A Little Spring in Your Step

Pranav Subramanian 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Campus Middle School Greenwood Village
*Ultrasonic-Based Optics Utilized for the Blind and Visually
Impaired*

Avery Lin 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Stanley British Primary School Denver
*War on Waves: A Study of Different Coastal Defenses and
Their Effectiveness Against Tsunamis*

Advaita Singh 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Cherry Creek Challenge School Denver
Effects of Ultraviolet Radiation on Planaria

Jack Stade 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Nevin Platt Middle School Boulder
Modeling Parasitic Relations Using Computer Models

Molly Nehring 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Monte Vista Middle School Monte Vista
*Genetic Algorithms: Solving Math Problems Using Ideas from
Nature*

Sam Duarte 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Quest Academy Dacono
*Bagpipes and Earplugs: Should Great Highland Bagpipe
Players Use Earplugs When Practicing?*

Edwin Bodoni 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Cherry Creek Challenge School Denver
Dental Implants: The Healthier Alternative

Taylor Dower 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Turner Middle School Berthoud
Playground Bacterial Levels Comparison

Madison Searles 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
STEM Academy Highlands Ranch
*A Comparison of Antibacterial Hand Cleansing Solutions and
Their Effectiveness on Killing Bacteria*

Brendan Gould 7th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
The Classical Academy Colorado Springs
Analyzing the Effects of Various Materials on a Magnetic Field

John Quinn 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Summit Charter Middle School Boulder
Wind, Wings, and Lift

Alicia Wu 8th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
Summit Charter Middle School Boulder
The Acidulous Truth About the Flora of Our Environment

Sarah Duzenack 6th grade
certificate, nomination to the 2015 Broadcom MASTERS
competition
La Veta Jr/Sr High School La Veta
*A Comparison of Endomycorrhizae and Commercial Fertilizer
on Bent and Blue Grass*

Intel Corporation

Excellence in Computer Science Award

Robert Meikle 9th grade
certificate, \$200 (to be mailed)
Sand Creek High School Colorado Springs
Graphing Calculator Application

Stephen Parish 12th grade
certificate, \$200 (to be mailed)
Home School Colorado Springs
*Cyber Automated Report Linker (C.A.R.L): Minimizing
Expansion of Catastrophic Cyber Infiltrations*

Mu Alpha Theta

Mu Alpha Theta Award

Jennifer Jones 12th grade
certificate
Frontier Academy Greeley
Creating Permutations for Actions on Young Tableaux, Year 2

Elliot Gorokhovskiy 10th grade
certificate
Fairview High School Boulder
A Novel Algorithm for Model Counting

National Oceanic and Atmospheric Administration

Taking the Pulse of the Planet Award

Emhyr Subramanian 7th grade
certificate, medallion

Cherry Creek Challenge School Denver
Potential Biodegradable Alternatives to Current Petroleum-Based Surfactants for Oil Spill Cleanup

Jesse Zhang 12th grade
certificate, medallion
Fairview High School Boulder
Effect of the Atlantic Ocean on Sudden Stratospheric Warming

Ricoh Americas Corporation

Ricoh Sustainability Development Award

Juan Sanchez 8th grade
certificate
Pueblo School for Arts and Sciences Pueblo
What the Frack!

Hannah deKay 10th grade
Raelen Barr 10th grade
certificate
Silverton Schools Silverton
Investigating Innovative Tools and Techniques for Heavy Metal Mapping in Historic Mining District

Society for In Vitro Biology

Outstanding Achievement for Ability and Creativity in In Vitro Biology Award

Merritt Singley 11th grade
certificate
Brush High School Brush
The Influence of Omega-3 Fatty Acids on Lipid Microdomains Obtained from Bovine Luteal Cells

Eileen Xia 10th grade
certificate
Cherry Creek High School Greenwood Village
Phosphatidylinositol-3 Kinase p110a Isoform Inhibits Antibody Switch

United States Metric Association

US Metric Association Award

Connor Voss 8th grade
certificate
Beulah School of Natural Sciences Beulah
Loop the Loop: Rollercoaster Physics

Jonathan Snedeker 12th grade
certificate
Fairview High School Boulder
Combined Inhibition of Wee1 and Parp1/2 as a Novel Therapy for Acute Myeloid Leukemia

United States Public Health Service

Surgeon General's Special Science Award

Madeline Steinle 8th grade
certificate
Trinity Lutheran School Pueblo
The Effects of Aspartame on Cognitive Abilities

Charles Rey 11th grade
certificate
Fairview High School Boulder
The Effects of Exercise on Short Term and Long Term Memory

Water Environment Association

Stockholm Junior Water Prize Award

Hannah Fischer 10th grade
certificate, nomination to the SJWP state competition
Sierra Grande Jr/Sr High School Blanca
Pharmacoenvironmentology: Developing a Baseline for PPCP Contaminant Levels at the MVNWR

Liam Foster 9th grade
certificate, nomination to the SJWP state competition
Animas High School Durango
Testing the Water: A Review of Various Acid Mine Drainage Remediation Options

Yale Science & Engineering Association

Yale Science & Engineering Association Award

Haley Weinstein 11th grade
certificate, pewter medallion (to be mailed)
Fairview High School Boulder
Analyzing Different Methods of Finding the Force at General Yield in Sub-sized Charpy Testing

Mary Hood 11th grade
certificate, pewter medallion (to be mailed)
Sargent Jr/Sr High School Monte Vista
SMART Cane: A Technology Integrated Device to Reduce the Fall Susceptibility of the Elderly

Teacher

Lockheed Martin

CSEF Teacher of the Year Award

Diego Martinez
\$3,000 grant, plaque
Center High School Center

SparkFun Electronics

SparkFun's Thank You to Educators Award

Pat Keeling
SparkFun Inventor's Kit (\$99 value)
La Veta Jr/Sr High School La Veta

Linda Niccoli
SparkFun Inventor's Kit (\$99 value)
Liberty School Joes

Dr. Paul Strode
SparkFun Inventor's Kit (\$99 value)
Fairview High School Boulder

John Wiley
SparkFun Inventor's Kit (\$99 value)
Cherry Creek Challenge School Denver

Diego Martinez
SparkFun Inventor's Kit (\$99 value)
Center High School Center