Press Release

Science is Life

Colorado Science and Engineering Fair
Colorado Students Grade 6 - 12
April 11 - 13, 2002
Colorado State University Cory Student Center

Molly & Hannah Kraus
Pagosa Springs Junior High School
**Junior Division**

### All Fair

**1st Place**
Meredith MacGregor 7th grade
*Avalanche! A Search for Self-Organized Criticality*
Burbank Middle School Boulder

**2nd Place**
Adam Sidman 8th grade
*Wind Turbine Design*
North Middle School Colorado Springs

**3rd Place**
Nathan McNew 8th grade
*Investigation of Prime Numbers*
Jefferson Academy Junior High School Arvada

### Botany

**1st Place**
Harold Klausner 8th grade
*Available Nitrogen vs. Legume Nodulation*
Woodlin High School Woodrow

**2nd Place**
Mallory White 8th grade
*The Effects of Agrobacterium tumefaciens on the Growth of Crown Galls on Different Dicotyledonous Plants*
North Middle School Colorado Springs

**3rd Place**
Ashley Button 6th grade
*Don't Invade My Space*
Fort Lupton Middle School Fort Lupton

### Honorable Mention

- **Botany**
  - Chris Messick 7th grade
    *The Role of Preservatives in the Delay of Senescence of Cut Flowers*
    Sargent Junior High School Monte Vista
  - Emily Woods 6th grade
    *Secret Weapons: Allelochemicals in Plants*
    Summit Middle School Boulder
  - Mathew Brennan 7th grade
    *This Is My Space - The Impact of Allelopathy*
    St. Columba School Durango
  - Kevin Hurd 7th grade
    *Jack, Check Your Soil's pH before You Plant Your Beans!*
    Holy Family Catholic School Grand Junction
  - Jed Michal 8th grade
    *Depth vs. Development*
    Arriba-Flagler Middle School Flagler
  - Nicole Thomas 10th grade
    *WNC 230-14RU Resistant or Immune to Potato Leaf Roll Virus*
    Sierra Grande High School Blanca
  - Jacqueline Consaul 11th grade
    *A Study on the Interaction Between Blackleg and PVY on Potatoes*
    Del Norte High School Center
  - Wumesh Khatri 12th grade
    *Glycolysis in Isoprene-Emitting Chloroplasts*
    Woodlin Undivided High School Woodrow
  - Levi Klausner 11th grade
    *Selecting for Salt Tolerance in 5 Varieties of Wheat*
    Woodlin Undivided High School Woodrow
  - Tyler Benton 9th grade
    *An Ecological Study of the Efficacy of the Conservation Reserve Program*
    Stratton High School Vona

**Senior Division**

### All Fair

**1st Place**
Craig Wright 10th grade
*Designing a Linear Peristaltic Pump Using Ferrofluids*
Woodlin High School Akron

**2nd Place**
Josh Haimes 12th grade
*WGA Amplification and Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus*
Boulder High School Boulder

**3rd Place**
Aaron Burgess & Kristen Rasmussen 11th grade
*Aircraft Icing: Why Does It Happen?*
Fairview High School Boulder

### Botany

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Nicole Thomas 10th grade
*WNC 230-14RU Resistant or Immune to Potato Leaf Roll Virus*
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Boulder High School Boulder

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    *The Role of Preservatives in the Delay of Senescence of Cut Flowers*
    Sargent Junior High School Monte Vista
### Junior Division
#### Earth & Space Sciences

**1st Place**  
Aerodynamics of Modern Rocketry  
St. Columba School  
Durango

**2nd Place**  
Dinosaur Tracks  
East Middle School  
Grand Junction

**3rd Place**  
Time: Sun vs. Clock  
Genoa-Hugo Middle School  
Genoa

**Honorable Mention**  
Which Helicopter Floats Slowest?  
Evergreen Mountain School  
Evergreen

### Senior Division
#### Earth & Space Sciences

**1st Place**  
River Banks - Nature's Erodible Boundaries  
Pagosa Springs High School  
Pagosa Springs

**2nd Place**  
The Cosmic Early Warning  
Palisade High School  
Palisade

**3rd Place**  
Rainbow Lightning?  
Liberty High School  
Yuma

### Junior Division
#### Engineering

**1st Place**  
Wind Turbine Design  
North Middle School  
Colorado Springs

**2nd Place**  
Modeling the Collapse of the World Trade Center: The Effect of Heat on the Tensile Strength of Steel  
Rocky Mountain Hebrew Academy  
Denver

**3rd Place**  
How Well Does a Directional Antenna Concentrate Radio Energy?  
St. John the Evangelist School  
Loveland

**Honorable Mention**  
A Hot Idea for a Cool Computer  
Crawford Elementary School  
Crawford

### Senior Division
#### Engineering

**1st Place**  
Designing a Linear Peristaltic Pump Using Ferrofluids  
Woodlin Undivided High School  
Akron

**2nd Place**  
Autonomous UAV Design  
Ussery Home School  
Fort Collins

**3rd Place**  
Rarr - An Alternative to Human Reconnaissance  
Broomfield High School  
Broomfield

**Honorable Mention**  
Is Your Roof Snow Proof?  
Monte Vista High School  
Monte Vista

### Honorable Mention

**Paper or Plastic?**  
St. Mary's School of Littleton  
Highlands Ranch
**2nd Place**
Maggie Reinsvold 8th grade
*The Effect of Magnesium Chloride on Decomposition*
Frontier Academy Greeley

**3rd Place**
Jacquie Beckvermit 8th grade
*Do You Drink Undrinkable Water?*
Turner Middle School Berthoud

**Honorable Mention**
Laura Biggins 8th grade
*The Effect of Wood Extracts on the Germination of Seeds*
Boltz Junior High School LaPorte

**Honorable Mention**
Anna Hermann 6th grade
*Under the Stream: Using Aquatic Insects to Determine Water Quality*
Summit Middle School Louisville

**Honorable Mention**
Lyle Hoffschneider 7th grade
"Black Gold" Particles: Comparing Particles of Fuel Sources Pagosa Springs Junior High School Pagosa Springs

**Honorable Mention**
Melissa Kanack 7th grade
Snow 'n Ice 'n Everything Not So Nice St. John the Evangelist School Loveland

**Honorable Mention**
Cacia Steensen 7th grade
*Does Pollution Affect Oxygen Production in Aquatic Plants?*
West Jefferson Middle School Pine

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**Senior Division**

**Environmental Sciences**

**1st Place**
Jessica Caver 11th grade
*Evaluating Designer Solids for Remediation of Heavy Elements in Aqueous Waste Streams*
Woodlin High School Deer Trail

**2nd Place**
Benjamin Howard 12th grade
*An Evaluation of the Effectiveness of Reformulated Gasoline in Reducing Urban Benzene Concentrations*
Fairview High School Boulder

**3rd Place**
Katherine Hermann 9th grade
*Predicting Water Quality with Landscape Metrics*
Boulder High School Louisville

**Honorable Mention**
Stephen Canham 12th grade
*Prevention of Soil Salinization from a Rising Water Table*
Cherry Creek High School Greenwood Village

**Honorable Mention**
Christine Knoblauch 12th grade
*Where's It Coming From?*
Monte Vista High School Del Norte

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**Junior Division**

**Health & Behavioral Sciences**

**1st Place**
Jeff Loewe 8th grade
*Pick Up the Beat*
Evangelical Christian Academy Colorado Springs

**2nd Place**
Kelly Cook 8th grade
*Is What You See What You Get?*
Boltz Junior High School Fort Collins

**3rd Place**
Allison Qubain 8th grade
*Into Thin Air*
Gardner Elementary School Gardner

**Honorable Mention**
Andrea Buxton 8th grade
*Fluoride: When Is Enough*
Eads Junior High School Lamar

**Honorable Mention**
Ian Springer 7th grade
*Lunar Changes and Their Effect on Human Behavior*
Lamar Middle School Lamar

**Honorable Mention**
T. J. Van Bibber 7th grade
*You Are What You Eat*
Sargent Junior High School Monte Vista

**Honorable Mention**
Kelly Dimmen 6th grade
*Stop in the Name of the Law*
Sabin Middle School Englewood

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**Senior Division**

**Health & Behavioral Sciences**

**1st Place**
April Mertens 12th grade
*A Promising Cancer Treatment: Tumor Suppression Using the Synergism of NSAID and Aloe*
Merino Jr/Sr High School Merino

**2nd Place**
Jaymee Jungie 11th grade
*Manipulation of the Kreb's Cycle*
Cherry Creek High School Englewood

**3rd Place**
Brian Camley 11th grade
*Every Breath You Take: The Effects of Radon on Biological Tissue - Damage and Immune Response*
Palmer High School Colorado Springs
Honorable Mention
Michelle Keck 12th grade
Remembered and Forgotten: An Examination of Autobiographical Memory, Reminiscence and Cultural Influences on Memory
Monte Vista High School Monte Vista

Honorable Mention
Jeff Marlow 11th grade
Hydroxyl Radical Neutralization by Non-Steroid Anti-Inflammatory Drugs Related to Alzheimer's Prevention
Cherry Creek High School Englewood

Honorable Mention
Krista Schroeder 9th grade
Feeling Smart
Palmer High School Colorado Springs

Junior Division
Mathematics & Computer Sciences

1st Place
Nathan McNew 8th grade
Investigation of Prime Numbers
Jefferson Academy Junior High School Arvada

2nd Place
Robert Glissmann 8th grade
Never Blinking, Never Sleeping: Image Preparation Improves Machine Vision
Summit Middle School Boulder

3rd Place
Timothy Schneider 6th grade
Programmable Vacuum Cleaner
Miller Middle School Durango

Honorable Mention
Max Krakauer 6th grade
Good to the Last Drop: The World Oil Shortage Simulator
North Middle School Colorado Springs

Senior Division
Mathematics & Computer Sciences

1st Place
Colin Oldberg 9th grade
Light-Operated Logic
Coronado High School Colorado Springs

2nd Place
Amanda Parker 9th grade
Not So Perfect Sine Waves: A Fourier Analysis of an Audio Oscillator
Cherry Creek High School Centennial

3rd Place
Eric Solanyk 9th grade
The Strategy to Monopoly: A Computer Simulation of the Probabilities of Movement and the Economics
Loveland PR Christian School Loveland

Honorable Mention
Lila Hickey 12th grade
Ups & Downs: Simulated Elevator Control
Brush High School Hillrose

Honorable Mention
Paul Scott 10th grade
Knotty Knumbers: Calculating Alexander's Polynomial
Woodlin High School Akron

Junior Division
Microbiology

1st Place
Kelly Valdes 8th grade
Thieves Steal Bacteria
St. Mary's School of Littleton Littleton

2nd Place
Michael Dango 7th grade
The Effect of Salinity on the Effectiveness of Bioremediation on Oil Spills Utilizing Pseudomonas and Penicillin
Challenger Middle School Colorado Springs

3rd Place
Jesse Sindler 7th grade
Somewhere Over the Rainbow, Fungi Fly
Canon City Middle School Canon City

Honorable Mention
Ashley Maddux 7th grade
Glow in the Dark - Will Bacteria Accept a Gene from a Jellyfish?
Pagosa Springs Junior High School Pagosa Springs

Honorable Mention
Alex Schnaderbeck 6th grade
Density of Bacteria on Public Surfaces
Sargent Elementary School Monte Vista

Senior Division
Microbiology

1st Place
Josh Haimes 12th grade
WGA Amplification and Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus
Boulder High School Boulder

2nd Place
Sara McFarland 11th grade
The Effect of Triclosan on Antibiotic Hoehne High School Trinidad

3rd Place
Lauren Goulding 9th grade
Chemical Memory: Can Physarum Polycephalum Reproduce a Pattern?
Palmer High School Colorado Springs

Honorable Mention
Lauryn Etl 10th grade
Antioxidants: Youth at Your Fingertips
Fleming High School Fleming
### Junior Division

**Physical Sciences**

<table>
<thead>
<tr>
<th>Place</th>
<th>Name</th>
<th>Grade</th>
<th>Project Title</th>
<th>School</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>Meredith MacGregor</td>
<td>7th</td>
<td>Avalanche! A Search for Self-Organized Criticality</td>
<td>Burbank Middle School</td>
</tr>
<tr>
<td>2nd</td>
<td>Megan Emmons</td>
<td>7th</td>
<td>Friction Over Tribology</td>
<td>Del Norte Middle School</td>
</tr>
<tr>
<td>3rd</td>
<td>John Wilkinson Jr.</td>
<td>8th</td>
<td>Sailing with Wind Power!</td>
<td>Mountain Ridge Middle School</td>
</tr>
<tr>
<td></td>
<td>Adreanne Brungardt</td>
<td>7th</td>
<td>Shake It Up: A Study on Size Separation</td>
<td>Brush Middle School</td>
</tr>
<tr>
<td></td>
<td>Tyler Hutchinson</td>
<td>6th</td>
<td>Catalysts: The Chemical Matchmakers</td>
<td>Holy Family Catholic School</td>
</tr>
<tr>
<td></td>
<td>Matt Zubiel</td>
<td>6th</td>
<td>Predicting UHF Radio Range from Antenna Height</td>
<td>Creekside Middle School</td>
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<tr>
<td></td>
<td>Rebecca Richardson</td>
<td>7th</td>
<td>Sodium Bicarbonate and pH: What Can It Lead To?</td>
<td>Berry Creek Middle School</td>
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</table>

**Zoology**

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<tbody>
<tr>
<td>1st</td>
<td>Marty Sandberg</td>
<td>8th</td>
<td>Rat Race</td>
<td>St. Mary's School of Littleton</td>
</tr>
<tr>
<td>2nd</td>
<td>Lisa Harms</td>
<td>7th</td>
<td>Got Silk?</td>
<td>Haxtun Middle School</td>
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<tr>
<td>3rd</td>
<td>Timothy Sauer</td>
<td>8th</td>
<td>Oh, Rats!</td>
<td>St. Mary's School of Littleton</td>
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<tr>
<td></td>
<td>Travis Justin Garoutte</td>
<td>6th</td>
<td>Pupation Creation</td>
<td>Centauri Middle School</td>
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**Team Projects**

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<td>1st</td>
<td>Alex West</td>
<td>8th</td>
<td>I'm Exhausted</td>
<td>West Jefferson Middle School</td>
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<tr>
<td>2nd</td>
<td>Jessica Nygren &amp; Caresse Wagner</td>
<td>8th</td>
<td>Spaced Out</td>
<td>St. Mary's School of Littleton</td>
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### Senior Division

**Physical Sciences**

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<td>Amber Henry</td>
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<td>An Algorithm Demonstrating Impact Splatter Pattern Due to Angle of Incidence Using a Dichotomous Key</td>
<td>Hi-Plains High School Joes</td>
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<td>11th</td>
<td>Spinning Samaras: A Study into Seed Distribution</td>
<td>Brush High School</td>
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<td>3rd</td>
<td>Leota McDaniel</td>
<td>11th</td>
<td>An Investigation into the Weissenberg Phenomenon</td>
<td>Brush High School</td>
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<td></td>
<td>Kyle Atwater</td>
<td>10th</td>
<td>Trebuchet Ballistics</td>
<td>Woodlin Undivided High School Genoa</td>
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<tr>
<td>1st</td>
<td>Holly McGuire</td>
<td>11th</td>
<td>Comparing Extracted and Amplified Mitochondrial DNA</td>
<td>Woodlin Undivided High School Lindon</td>
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<tr>
<td>2nd</td>
<td>Robert Bernton</td>
<td>9th</td>
<td>In Vivo PLA2 Inhibition</td>
<td>Rocky Mountain Hebrew Academy Littleton</td>
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<td>3rd</td>
<td>Kori Tagtmeyer</td>
<td>9th</td>
<td>Determining Failure of Passive Transfer in Neonatal Bovine Based on Immunoglobulin G Levels</td>
<td>Hi-Plains High School Stratton</td>
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<tr>
<td></td>
<td>Trixie Lee</td>
<td>12th</td>
<td>The Squeeze Is On: Overcoming Overpopulation</td>
<td>Fleming High School Crock</td>
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<td>Matthew Simes</td>
<td>12th</td>
<td>Relative Abundance of Ponderosa Pine Bird Species Along an Elevational Gradient</td>
<td>Centaurus High School Lafayette</td>
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<tr>
<td>Junior</td>
<td>Erosion and the Formation of Alluvial Fans</td>
<td>Danika Friedley &amp; Whitney Howard</td>
<td>Bayfield Middle School</td>
<td>Bayfield</td>
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<tr>
<td></td>
<td>Kids Don't Bounce</td>
<td>Noah Husek &amp; Jonathan Wolfe</td>
<td>Burbank Middle School</td>
<td>Boulder</td>
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<td>Burning Up</td>
<td>Hannah Schumacher &amp; Erin Luck</td>
<td>Burbank Middle School</td>
<td>Boulder</td>
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<td>Aircraft Icing: Why Does It Happen?</td>
<td>Aaron Burgess &amp; Kristen Rasmussen</td>
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<td>Aircraft Simulation of Stability of the Orbits in a Multi-Planet System</td>
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<td></td>
<td>Significant Factors That Affect Perception of Location</td>
<td>Eric King &amp; David Van Wagener</td>
<td>Cherry Creek High School</td>
<td>Englewood</td>
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<td>Stress and Immunity: Qualification of Immunoglobulin G and Leukocytes</td>
<td>Brittna Cliff &amp; Breanna Anderson</td>
<td>Akron High School</td>
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<td>David Wacker &amp; Curtis Larimer</td>
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2002 Colorado Science and Engineering Fair
Special Awards Press Release

Colorado Science and Engineering Fair
Ralph Desch Memorial Technical Writing Award

Adam Curry
12th grade
$100, certificate
Palisade High School
Palisade
The Cosmic Early Warning

Student Choice Award

Meredith MacGregor
7th grade
$25, trophy
Burbank Middle School
Boulder
Avalanche! A Search for Self-Organized Criticality

Brandon Rosgen
11th grade
$25, trophy
Pagosa Springs High School
Pagosa Springs
River Banks - Nature's Erodible Boundaries

Military

United States Army

Jaymee Jungie
11th grade
certificate, graphing calculator, invitation to the Junior Science and Humanities Symposium
Cherry Creek High School
Englewood
Manipulation of the Kreb's Cycle

Amber Henry
10th grade
certificate, $50 savings bond
Hi-Plains High School
Joes
An Algorithm Demonstrating Impact Splatter Pattern Due to Angle of Incidence Using a Dichotomous Key

Michael Yurkoski
11th grade
certificate, $50 savings bond
Broomfield High School
Broomfield
Rarr - An Alternative to Human Reconnaissance

Katherine Hermann
9th grade
certificate, $50 savings bond
Boulder High School
Louisville
Predicting Water Quality with Landscape Metrics

Amanda Parker
9th grade
certificate, silver medallion, $100 savings bond
Cherry Creek High School
Centennial
Not So Perfect Sine Waves: A Fourier Analysis of an Audio Oscillator

United States Navy and United States Marine Corps

Kinsey Freeman
9th grade
certificate, graphing calculator, invitation to the Junior Science and Humanities Symposium
Palmer High School
Colorado Springs
Factors Affecting Life Span

Organizational

Air and Waste Management Association
Rocky Mountain States Section

Lyle Hoffschneider
7th grade
certificate, $50
Pagosa Springs Junior High School
Pagosa Springs
"Black Gold" Particles: Comparing Particles of Fuel Sources

Michael Dango
7th grade
certificate, $100
Challenger Middle School
Colorado Springs
The Effect of Salinity on the Effectiveness of Bioremediation of Oil Spills Utilizing Pseudomonas and Penicillin

Benjamin Howard
12th grade
certificate, $50
Fairview High School
Boulder
An Evaluation of the Effectiveness of Reformulated Gasoline in Reducing Urban Benzene Concentrations

Jessica Caver
11th grade
certificate, $100
Woodlin Undivided High School
Deer Trail
Evaluating Designer Solids for Remediation of Heavy Elements in Aqueous Waste Streams

American Association of University Women

Meredith MacGregor
7th grade
$100
Burbank Middle School
Boulder
Avalanche! A Search for Self-Organized Criticality

American Institute of Chemical Engineers
Rocky Mountain Section

Michael Dango
7th grade
$75
Challenger Middle School
Colorado Springs
The Effect of Salinity on the Effectiveness of Bioremediation of Oil Spills Utilizing Pseudomonas and Penicillin
American Meteorological Society  
Denver/Boulder Chapter

Melissa Kanack  
7th grade

certificate, $50 gift certificate to Barnes and Noble

St. John the Evangelist School  
Loveland

Snow 'n' Ice 'n' Everything Not So Nice

Benjamin Howard  
12th grade

certificate, $50 gift certificate to Barnes and Nobel

Fairview High School  
Boulder

An Evaluation of the Effectiveness of Reformulated Gasoline in Reducing Urban Benzene Concentrations

American Vacuum Society  
Rocky Mountain Chapter

Adam Sidman  
8th grade

$50, $50 for winner's school

North Middle School  
Colorado Springs

Wind Turbine Design

Daniel Weidlein  
6th grade

$100, $100 for winner's school

Summit Middle School  
Boulder

Into the Wind: Wind Powered Cars

Craig Wright  
10th grade

$100, $100 for winner's school

Woodlin Undivided High School  
Akron

Designing a Linear Peristaltic Pump Using Ferrofluids

Jessica Caver  
11th grade

$100, $100 for winner's school

Woodlin Undivided High School  
Deer Trail

Evaluating Designer Solids for Remediation of Heavy Elements in Aqueous Waste Streams

American Welding Society  
Colorado Section

Matthew Rotbart  
8th grade

$25, trophy

Rocky Mountain Hebrew Academy  
Denver

Modeling the Collapse of the World Trade Center: The Effect of Heat on the Tensile Strength of Steel

Dak Steiert  
11th grade

$25, trophy

Battle Mountain High School  
Edwards

Ramjet Propulsion for High Altitude Launch and Research

Analex Corporation

Lila Hickey  
12th grade

certificate, $100

Brush High School  
Hillrose

Ups & Downs: Simulated Elevator Control

ASM International  
Rocky Mountain Chapter

Matthew Rotbart  
8th grade

$50

Rocky Mountain Hebrew Academy  
Denver

Modeling the Collapse of the World Trade Center: The Effect of Heat on the Tensile Strength of Steel

William Eucker  
10th grade

$75

George Washington High School  
Denver

Metallurgical Characteristics of the Sacagawea Dollar

Association for Women Geoscientists  
Denver Chapter

Audrey Keenan  
6th grade

$50, rock sample

Holy Family Catholic School  
Grand Junction

Go with the Flow - A Study of Water Quality in the Upper Colorado River Basin

Jessica Caver  
11th grade

$50, rock sample

Woodlin Undivided High School  
Deer Trail

Evaluating Designer Solids for Remediation of Heavy Elements in Aqueous Waste Streams

Colorado Association of Science Teachers

Maxwell Van Pelt  
7th grade

$50, certificate

Rocky Mountain School  
Boulder

An Investigation of Automated Highways

Devin Adam  
8th grade

$50, certificate

Crawford Elementary School  
Crawford

A Hot Idea for a Cool Computer

Julie Ann Chelewski  
9th grade

$50, certificate

Rifle High School  
Silt

Turning the Red Planet Green

Robert Ussery  
10th grade

$50, certificate

Ussery Home School  
Fort Collins

Autonomous UAV Design

Colorado Dental Association & 
Arkansas Valley Dental Society

Kayla Kinch & Britney Bunker  
6th grade

watch, Wal-Mart gift card

Ellicott Middle School  
Calhan

Smile

Brittani Cliff & Breanna Anderson  
10th grade

watch, Wal-Mart gift card

Akron High School  
Akron

Stress and Immunity: Qualification of Immunoglobulin G and Leukocytes

Andrea Buxton  
8th grade

$25, plaque, Wal-Mart gift card

Eads Junior High School  
Lamar

Fluoride: When Is Enough
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Brandon Rosgen 11th grade
$100, certificate, information on sustainability
Pagosa Springs High School Pagosa Springs
River Banks - Nature's Erodible Boundaries

Colorado Veterinary Medical Association
Nicholas Edwards 7th grade
certificate, gold medallion, $50
Juniper Drive Middle School Colorado Springs
The Five Senses of Training a Dog

Colorado State University
Dept. of Biochemistry & Molecular Biology
Jeff Marlow 11th grade
certificate, $100
Cherry Creek High School Englewood
Hydroxyl Radical Neutralization by Non-Steroid Anti-Inflammatory Drugs Related to Alzheimer's Prevention

Colorado State University
Dept. of Horticulture & Landscape Architecture
Emily Woods 6th grade
$100
Summit Middle School Boulder
Secret Weapons: Allelochemicals in Plants

Fort Collins Soil Conservation District
Jeffrey West 7th grade
$50, plaque
Lamar Middle School Lamar
Will Size Affect the Amount of Soil Blown Away?

Kodak Colorado Division
Tyler Keck 8th grade
APS camera
Monte Vista Middle School Monte Vista
To Corrode or Not to Corrode: Preventing Microbiologically Influenced Corrosion (MIC) on Steel Using a Polyurethane Coating

Lockheed Martin Astronautics
Dak Steiert 11th grade
Atlas II AS Rocket model
Battle Mountain High School Edwards
Ramjet Propulsion for High Altitude Launch and Research

National Geophysical Data Center
Lyle Hoffschneider 7th grade
certificate, plaque, $100 savings bond
Pagosa Springs Junior High School Pagosa Springs
"Black Gold" Particles: Comparing Particles of Fuel Sources

National Renewable Energy Laboratory
Adam Sidman 8th grade
$100
North Middle School Colorado Springs
Wind Turbine Design

Rocky Mountain Association of Geologists
Danika Friedley & Whitney Howard 7th grade
certificate, cash award (to be mailed to the winners)
Bayfield Middle School Bayfield
Erosion and the Formation of Alluvial Fans

Rocky Mountain Goats Foundation
Stacy Dominguez 6th grade
$100
Pagosa Springs Intermediate School Pagosa Springs
Local Lake Quality = Happy pHish

Tyler Woods 11th grade
$100
Pagosa Springs High School Pagosa Springs
River Banks - Nature's Erodible Boundaries

Intel Corporation
Meredith MacGregor 7th grade
laptop computer
Burbank Middle School Boulder
Avalanche! A Search for Self-Organized Criticality
Rocky Mountain Inventors & Entrepreneurs Congress

Best Junior Exhibit Award

Ross Brunkhardt 7th grade
Merino Jr/Sr High School Sterling
Take on a Shake - The Use of Base Isolators to Prevent Earthquake Damage
$50

Best Classroom Presentation Potential

Meredith MacGregor 7th grade
Burbank Middle School Boulder
Avalanche! A Search for Self-Organized Criticality
$50

Excellent Senior Exhibit Award

Adam Curry 12th grade
Palisade High School Palisade
The Cosmic Early Warning
$50

Excellent Senior Exhibit Award

April Mertens 12th grade
Merino Jr/Sr High School Merino
A Promising Cancer Treatment: Tumor Suppression Using the Synergism of NSAID and Aloe
$50

Outstanding Exhibit: Near-term Potential for Implementation

Robert Glissmann 8th grade
Summit Middle School Boulder
Never Blinking, Never Sleeping: Image Preparation Improves Machine Vision
$50

Rocky Mountain Water Environment Association

Anna Hermann 6th grade
savings bond (to be mailed to the winners)
Summit Middle School Louisville
Under the Stream: Using Aquatic Insects to Determine Water Quality

Jacquie Beckvermit 8th grade
savings bond (to be mailed to the winners)
Turner Middle School Berthoud
Do You Drink Undrinkable Water?

Katherine Hermann 9th grade
savings bond (to be mailed to the winners)
Boulder High School Louisville
Predicting Water Quality with Landscape Metrics

Christine Knoblauch 8th grade
Monte Vista High School Del Norte
Where's It Coming From?

Society of Manufacturing Engineers Chapter 354, Electro-Mechanical

Eddie Kreimier 9th grade
certificate, $200 savings bond
Rifle High School Rifle
If I Only Had a Heart (Valve)

Society of Women Engineers Rocky Mountain Section

April Brooks 8th grade
certificate, $50
O'Connell Middle School Lakewood
The Fastest Power

Molly May 6th grade
certificate, $75
St. Columba School Durango
A Comparison of Tensile Strength of Various Materials

Amanda Parker 9th grade
certificate, $50
Cherry Creek High School Centennial
Not So Perfect Sine Waves: A Fourier Analysis of an Audio Oscillator

Lindy Doddridge 12th grade
certificate, $75
Liberty High School Kirk
From Prickly to Paper Part II

Soil and Water Conservation Society Colorado Chapter

Caitlin Hladky 6th grade
$25, certificate, ribbon
Fort Lupton Middle School Fort Lupton
Does pH Affect Seed Germination and Growth Rate?
Anna Hermann 6th grade
$50, certificate, ribbon
Summit Middle School Louisville
*Under The Stream: Using Aquatic Insects to Determine Water Quality*

Katherine Hermann 9th grade
$25, certificate, ribbon
Boulder High School Louisville
*Predicting Water Quality with Landscape Metrics*

Brandon Rosgen 11th grade
$50, certificate, ribbon
Pagosa Springs High School Pagosa Springs
*River Banks - Nature's Erodible Boundaries*

**Tracy Teyler Memorial Poster Art Contest**

Lauren Goulding 9th grade
$100, certificate
Palmer High School Colorado Springs
*Manipulation of the Kreb's Cycle*

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

Jaymee Jungie 11th grade
$100
Cherry Creek High School Englewood
*Operation: Voice Control*

**United States Department of Commerce**

Chris Anderson 12th grade
alternate
Merino Jr/Sr High School Merino
*Renewable Protection: The Solar and Hydrogen Approach to Pipeline Cathodics*

Eric Doner 12th grade
opportunity for summer employment
Walsh High School Walsh
*Operation: Voice Control*

**United States Geological Survey**

Jeffrey Hrncl 7th grade
East Middle School Grand Junction
*Dinosaur Tracks*

Brandon Rosgen 11th grade
Pagosa Springs High School Pagosa Springs
*River Banks - Nature's Erodible Boundaries*

**Yale University Science & Engineering Association**

Leota McDaniel 11th grade
certificate, pewter medallion (mailed to the winner)
Brush High School Brush
*An Investigation into the Weissenberg Phenomenon*

**Zonta Club of Boulder County Amelia Earhart Award**

Annie Sandner 8th grade
$100
St. Columba School Durango
*Aerodynamics of Modern Rocketry*

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**Scholarships**

**Adams State College Foundation Adams State College Scholarship**

Jacqueline Consaul 11th grade
one year full resident tuition & fees scholarship
Del Norte High School Center
*A Study on the Interaction Between Blackleg and PVY on Potatoes*

Brandon Rosgen 11th grade
one year full resident tuition & fees scholarship
Pagosa Springs High School Pagosa Springs
*River Banks - Nature's Erodible Boundaries*

Leyton Laybourn 10th grade
one year full resident tuition & fees scholarship
Arickaree Undivided High School Cope
*The Best Superinsulator*

Christine Knobauch 12th grade
one year full resident tuition & fees scholarship
Monte Vista High School Del Norte
*Where's It Coming From?*

April Mertens 12th grade
one year full resident tuition & fees scholarship
Merino Jr/Sr High School Merino
*A Promising Cancer Treatment: Tumor Suppression Using the Synergism of NSAID and Aloe*

Colin Oldberg 9th grade
one year full resident tuition & fees scholarship
Coronado High School Colorado Springs
*Light-Operated Logic*

Sara McFarland 11th grade
one year full resident tuition & fees scholarship
Hoehne High School Trinidad
*The Effect of Triclosan on Antibiotic Resistance*

Megan Quick 12th grade
one year full resident tuition & fees scholarship
Palmer High School Colorado Springs
*A Comparison of the Efficiencies of Tracking Photovoltaic Cells vs. Mounted Photovoltaic Cells*

Matthew Simes 12th grade
one year full resident tuition & fees scholarship
Centaurus High School Lafayette
*Relative Abundance of Ponderosa Pine Bird Species Along an Elevational Gradient*

**Colorado School of Mines Colorado School of Mines Scholarship**

Adam Curry 12th grade
four-year full resident tuition
Palisade High School Palisade
*The Cosmic Early Warning*

Chris Anderson 12th grade
four-year full resident tuition
Merino Jr/Sr High School Merino
*Renewable Protection: The Solar and Hydrogen Approach to Pipeline Cathodics*
Lila Hickey 12th grade
four-year full resident tuition
Brush High School Hillrose
Ups & Downs: Simulated Elevator Control

Benjamin Howard 12th grade
four-year full resident tuition
Fairview High School Boulder
An Evaluation of the Effectiveness of Reformulated Gasoline in Reducing Urban Benzene Concentrations

Benjamin Howard 12th grade
four-year full resident tuition
Fairview High School Boulder
An Evaluation of the Effectiveness of Reformulated Gasoline in Reducing Urban Benzene Concentrations

Colorado State University Colorado State University Scholarship
Nicole Thomas 10th grade
non-renewable $1,000 scholarship
Sierra Grande High School Blanca
WNC 230-14RU Resistant or Immune to Potato Leaf Roll Virus

Brandon Rosgen 11th grade
non-renewable $1,000 scholarship
Pagosa Springs High School Pagosa Springs
River Banks - Nature's Erodible Boundaries

Craig Wright 10th grade
non-renewable $1,000 scholarship
Woodlin Undivided High School Akron
Designing a Linear Peristaltic Pump Using Ferrofluids

Jessica Caver 11th grade
non-renewable $1,000 scholarship
Woodlin Undivided High School Deer Trail
Evaluating Designer Solids for Remediation of Heavy Elements in Aqueous Waste Streams

April Mertens 12th grade
non-renewable $1,000 scholarship
Merino Jr/Sr High School Merino
A Promising Cancer Treatment: Tumor Suppression Using the Synergism of NSAID and Aloe

Colin Oldberg 9th grade
non-renewable $1,000 scholarship
Coronado High School Colorado Springs
Light-Operated Logic

Josh Haimes 12th grade
non-renewable $1,000 scholarship
Boulder High School Boulder
WGA Amplification and Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus

Harold Klausner 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Woodlin Undivided High School Woodrow
Relative Abundance of Ponderosa Pine Bird Species Along an Elevational Gradient

Matthew Simes 12th grade
certificate, Biodiversity Hotspots map (mailed later)
Centaurus High School Lafayette
Available Nitrogen vs. Legume Nodulation

Intel Corporation Ryan Patterson Scholarship
Lila Hickey 12th grade
$2,000 scholarship to the college of choice
Brush High School Hillrose
Ups & Downs: Simulated Elevator Control

Science Service
Conservation International Award in Biodiversity Conservation Science 2002
Matthew Simes 12th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Centaurus High School Lafayette
Available Nitrogen vs. Legume Nodulation

Harold Klausner 8th grade
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Woodlin Undivided High School Woodrow
Relative Abundance of Ponderosa Pine Bird Species Along an Elevational Gradient

Discovery Communications, Inc. Discovery Young Scientist Challenge
Harold Klausner 8th grade
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Woodlin Undivided High School Woodrow
Available Nitrogen vs. Legume Nodulation

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Woodlin Undivided High School Woodrow
Available Nitrogen vs. Legume Nodulation

Annie Sandner 8th grade
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St. Columba School Durango
Aerodynamics of Modern Rocketry

Adam Sidman 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
St. Columba School Durango
Aerodynamics of Modern Rocketry

Meaghan Kormondy 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
St. Mary's School of Littleton Highlands Ranch
Paper or Plastic?

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St. Mary's School of Littleton Highlands Ranch
Paper or Plastic?

Jeff Loewe 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Evangelical Christian Academy Colorado Springs
Pick Up the Beat

Nathan McNew 8th grade
certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
Evangelical Christian Academy Colorado Springs
Pick Up the Beat

Lila Hickey 12th grade
Ups & Downs: Simulated Elevator Control
Blend High School Hillrose

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Conservation International Award in Biodiversity Conservation Science 2002
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certificate, Biodiversity Hotspots map (mailed later)
Centaurus High School Lafayette
Available Nitrogen vs. Legume Nodulation

Craig Wright 12th grade
non-renewable $1,000 scholarship
Boulder High School Boulder
WGA Amplification and Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus

Annie Sandner 8th grade
An Algorithm Demonstrating Impact Splatter Pattern Due to Angle of Incidence Using a Dichotomous Key
St. Columba School Durango
Aerodynamics of Modern Rocketry

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Evangelical Christian Academy Colorado Springs
Pick Up the Beat

Josh Haimes 12th grade
non-renewable $1,000 scholarship
Boulder High School Boulder
WGA Amplification and Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus

Aircraft Icing: Why Does It Happen?
Meredith MacGregor 7th grade
Burbank Middle School Boulder
Certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition

Avalanche! A Search for Self-Organized Criticality

Marty Sandberg 8th grade
St. Mary's School of Littleton Littleton
Certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition

Rat Race

Alex West 8th grade
Andrew West 6th grade
West Jefferson Middle School Conifer
Certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition

I'm Exhausted

Kelly Valdes 8th grade
St. Mary's School of Littleton Littleton
Certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition

Thieves Steal Bacteria

Eastman Kodak Company

Jacqueline Consaul 11th grade
Del Norte High School Center
Certificate, Kodak camera and film (mailed later)

A Study on the Interaction Between Blackleg and PVY on Potatoes

Herbert Hoover Presidential Library Association

The Herbert Hoover Young Engineer Award

Craig Wright 10th grade
Medallion, certificate
Woodlin Undivided High School Akron
Designing a Linear Peristaltic Pump Using Ferrofluids

Intel Corporation

Intel Excellence in Computer Science Award

Colin Oldberg 9th grade
Certificate, $200 (mailed later)
Coronado High School Colorado Springs
Light-Operated Logic

Intel Excellence in Environmental Health & Safety Award

Jessica Caver 11th grade
Certificate, $200 (mailed later)
Woodlin Undivided High School Deer Trail
Evaluating Designer Solids for Remediation of Heavy Elements in Aqueous Waste Streams

NACE International

Tyler Keck 8th grade
Monte Vista Middle School Monte Vista
Certificate

To Corrode or Not to Corrode: Preventing Microbiologically Influenced Corrosion (MIC) on Steel Using a Polyurethane Coating

Scientific American

Nicole Thomas 10th grade
Certificate, subscription to Scientific American
Sierra Grande High School Blanca
WNC 230-14RU Resistant or Immune to Potato Leaf Roll Virus

Brandon Rosgen 11th grade
Certificate, subscription to Scientific American
Pagosa Springs High School Pagosa Springs
River Banks - Nature's Erodible Boundaries

Craig Wright 10th grade
Certificate, subscription to Scientific American
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April Mertens 12th grade
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Merino Jr/Sr High School Merino
A Promising Cancer Treatment: Tumor Suppression Using the Synergism of NSAID and Aloe

Colin Oldberg 9th grade
Certificate, subscription to Scientific American
Coronado High School Colorado Springs
Light-Operated Logic

Amber Henry 10th grade
Certificate, subscription to Scientific American
Hi-Plains High School Joes
An Algorithm Demonstrating Impact Splatter Pattern Due to Angle of Incidence Using a Dichotomous Key

Holly McGuire 11th grade
Certificate, subscription to Scientific American
Woodlin Undivided High School Lindon
Comparing Extracted and Amplified Mitochondrial DNA

Aaron Burgess & Kristen Rasmussen 11th grade
Certificate, subscription to Scientific American
Fairview High School Boulder
Aircraft Icing: Why Does It Happen?

Josh Haimes 12th grade
Certificate, subscription to Scientific American
Boulder High School Boulder
WGA Amplification and Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus

Society for In Vitro Biology

Levi Klausner 11th grade
Certificate
Woodlin Undivided High School Woodrow
Selecting for Salt Tolerance in 5 Varieties of Wheat

United States Metric Association

Alex Lande 7th grade
Certificate
Ignacio Junior High School Ignacio
The Truth Behind Jurassic Park
<table>
<thead>
<tr>
<th>Name</th>
<th>Grade</th>
<th>School</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adam Brungardt</td>
<td>11th</td>
<td>Brush High School</td>
<td>Spinning Samaras: A Study into Seed Distribution</td>
</tr>
<tr>
<td>T. J. Van Bibber</td>
<td>7th</td>
<td>Sargent Junior High School</td>
<td>You Are What You Eat</td>
</tr>
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<td>Katherine Hermann</td>
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