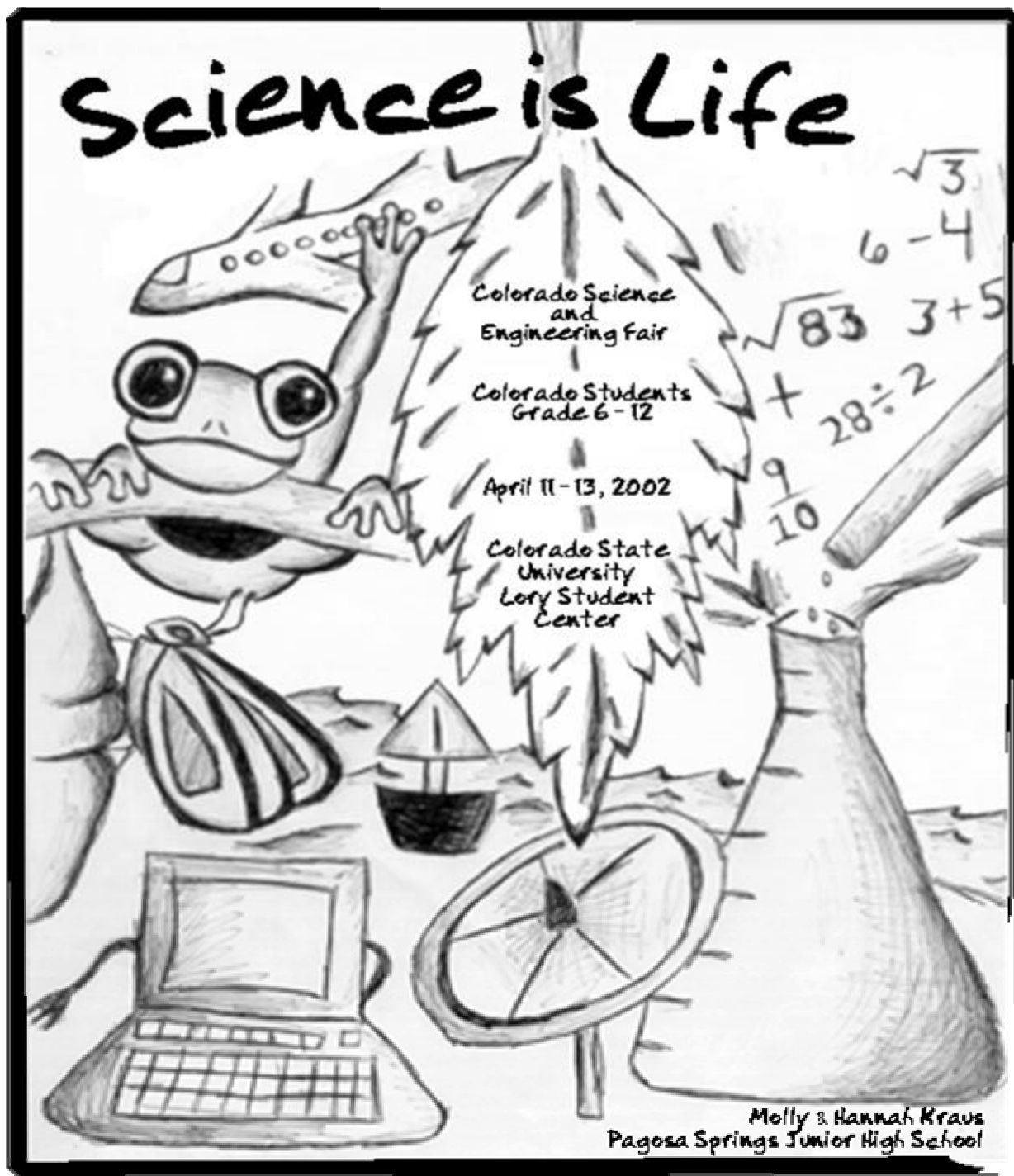
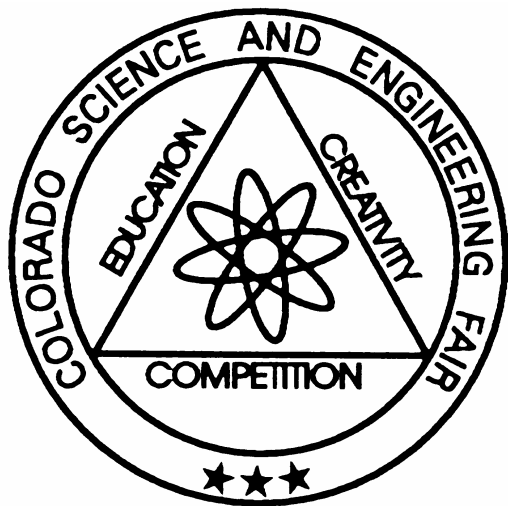


Colorado State Science Fair, Inc.

2002 Annual Report



August 31, 2002



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Colorado State University
Fort Collins, CO 80523-1802

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Courtney Butler, (970) 491-7716

2002 Annual Report

From start to finish, and at all levels of participation, the science fair experience is one not only of competition but also of camaraderie, creativity, cooperation, and education. This is the essence of the logo for the Colorado Science and Engineering Fair.

Established in 1956, the Colorado State Science Fair, Inc. is a private, non-profit organization that holds a statewide competition each year. This competition, known as the Colorado Science and Engineering Fair (CSEF), is the state level event in a yearlong process of local and regional science fairs. More than two thousand students from all over the state participate in the statewide science fair program. The purpose of the CSEF is to stimulate student interest and encourage them in science and engineering through recognition of their ability and achievement.

This year, state winners were chosen from among 259 exhibits presented by 289 finalists from 12 regions within the state. This represented 85 schools throughout the state. More than 110 professional scientists, engineers and mathematicians interviewed the students and evaluated their projects before selecting the Grand Award winners. In addition, over 50 businesses, professional societies, and government agencies provided more than 100 of their own representatives to judge exhibits based on their own criteria. They judged the student finalists and conferred Special Awards which represented an aspect of the bestowing organization. These included college scholarships, offers of summer employment, field trips, cash, savings bonds, and calculators. Over 800 people attended the Awards Ceremony this year.

The 2002 Colorado Science and Engineering Fair had 30 sponsors. Sponsors included 2 Platinum Sponsors (providing over \$2500 of support), 13 Gold Sponsors (\$1000-\$2500 of support each), 1 Silver Sponsor (\$750-\$1000 of support), and 14 Regular Sponsors (\$500-\$750 of support each). In addition, there were 15 Financial Contributors (less than \$500 each). In addition, several individuals donated through the Denver Combined Federal Campaign.

In addition to getting the rare opportunity to speak with working scientists, Colorado Science and Engineering Fair student participants competed for awards in these categories: Botany; Earth and Space Sciences; Environmental Sciences; Engineering; Health and Behavioral Sciences; Mathematics and Computer Sciences; Physical Sciences; Zoology; and Team Interdisciplinary. Recognition for outstanding exhibits in each of these categories as well as an award for technical writing were given to students at the Colorado Science and Engineering Fair Awards Ceremony. The top two Senior Division winners at the state level are awarded trips to the Intel International Science and Engineering Fair (Intel ISEF).

A number of experiences were made available to students who participated in the Colorado Science and Engineering Fair. Tours of university and local corporate research facilities provided opportunities for students and their families to see research in action. The judges' interviews allowed the students to interact with professional scientists and engineers. Many students have said that having the chance to meet and speak with their peers about their science projects is the most beneficial aspect of the Colorado Science and Engineering Fair.

Scholarships from Adams State College (ASC), Colorado School of Mines (CSM), and Colorado State University (CSU), were also presented. Adams State College awarded nine one-year full resident tuition and fees scholarships. The Colorado School of Mines awarded four four-year full resident tuition scholarships to 12th grade students in the categories of Physical Sciences, Engineering, Environmental Sciences, and Earth & Space Sciences. Colorado State University offered a \$1,000 scholarship to the first place winner in each of the content categories in the Senior Division and \$1,000 scholarship to each of the Senior Division All Fair winners. The Intel Corporation also awarded a \$2,000 scholarship to a twelfth grader to be used at a college or university of their choice in honor of Ryan Patterson, the 2001 Intel ISEF top winner from Colorado.

2002 Colorado Science and Engineering Fair

The forty-seventh Colorado Science and Engineering Fair was held at the Lory Student Center on the campus of Colorado State University on April 11-13, 2002. Two hundred eighty-nine students participated in this three-day event and competed for honors in their respective categories. This year, the CSEF was honored to have as the guest speaker, Nobel Laureate, Dr. Carl Wieman. Carl Wieman is a Distinguished Professor of Physics at the University of Colorado in Boulder, CO. He is also a Fellow of JILA, an institute operated jointly by the University of Colorado and the National Institute of Standards and Technology. Dr. Wieman is the recipient of a myriad of scientific awards but is most noted for his “Bose-Einstein Condensation: Quantum weirdness at the lowest temperature in the universe” research for which he received the Nobel Prize in 2001. In addition to his research activities, Wieman has been involved in innovations in science education, and has given many presentations to high school classes and general audiences. Currently he is a member of the National Task Force on Undergraduate Physics Revitalization. He is also an elected member of the National Academy of Sciences Board on Physics and Astronomy and the American Academy of Arts and Sciences. (*See 2002 CSEF Schedule – Appendix 1*)

The top exhibitor of the 47th Annual Colorado Science and Engineering Fair and winner of an all-expense paid trip to compete in the Intel International Science and Engineering Fair was: **Craig Wright** from Woodlin High School in Woodrow, CO, grade 10, for the project: *Designing A Linear Peristaltic Pump Using Ferrofluids*. The runner-up for the best in the state science fair, also a winner of an all-expense paid trip to Intel ISEF was: **Josh Haimes** from Boulder High School in Boulder, CO grade 12, for the project: *WGA Amplification And Thin Film Detection of Methicillin Resistant/Sensitive Staphylococcus aureus*. Awarded third place in the Senior Division, and also winners of an expense paid trip to compete at the Intel ISEF trip were: **Aaron Burgess and Kristen Rasmussen**, both from Fairview High School in Boulder, CO, grade 11, for their project: *Aircraft Icing: Why Does It Happen?*

The top winner of the Junior Division was **Meredith MacGregor** from Burbank Middle School in Boulder, CO, grade 7, for the project: *Avalanche! A Search For Self-Organized Criticality*. The exhibit judged second best in the Junior Division was by **Adam Sidman** from North Middle School in Colorado Springs, CO, grade 8, for *Wind Turbine Design*. Third best in the Junior Division was **Nathan McNew** from Jefferson Academy Junior High School in Arvada, CO, grade 8, for *Investigation of Prime Numbers*.

The winner of the Ralph F. Desch Memorial Technical Writing Award was **Adam Curry** from Palisade High School in Palisade, CO, grade 12, for the project: *The Cosmic Early Warning*.

The winner of the Student Choice Award - Senior Division was **Brandon Rosgen**, from Pagosa Springs High School in Pagosa Springs, CO, grade 11, for the project: *River Banks – Nature’s Erodible Boundaries*.

The winner of the Student Choice Award - Junior Division was **Meredith MacGregor**, from Burbank Middle School in Boulder, CO, grade 7, for the project: *Avalanche! A Search For Self-Organized Criticality*.

The winner of the Poster Art Contest was **Lauren Goulding** from Palmer High School in Colorado Springs.

Winners of the scholarships given by the universities and colleges were:

Adams State College

Jaqueline Consaul from Del Norte High School in Del Norte, CO, grade 11, for the project: *A Study On The Interaction Between Blackleg and PVY On Potatoes*.

Brandon Rosgen from Pagosa Springs High School in Pagosa Springs, CO, grade 11, for the project: *River Banks – Nature’s Erodible Boundries*

Leyton Laybourn from Arickaree High School in Anton, CO, grade 10, for the project: *The Best Superinsulator*.

Christine Knoblauch from Monte Vista High School in Monte Vista, CO, grade 12, for the project: *Where’s It Coming From?*

April Mertens from Merino Jr/Sr High School in Merino, CO, grade 12, for the project: *A Promising Cancer Treatment: Tumor Suppression Using The Synergism Of NSAID And Aloe*.

Colin Oldberg from Coronado High School in Colorado Springs, CO, grade 9, for the project: *Light-Operated Logic*.

Sara McFarland from Hoehne High School in Hoehne, CO, grade 11, for the project: *The Effect Of Triclosan On Antibiotic Resistance*.

Megan Quick from Palmer High School in Colorado Springs, CO, grade 12, for the project: *A Comparison Of The Effeciencies Of Tracking Photovoltaic Cells vs. Mounted Photovoltaic Cells*.

Matthew Simes from Centaurus High School in Lafayette, CO, grade 12, for the project: *Relative Abundance of Ponderosa Pine Bird Species Along An Elevational Gradient*.

Colorado State University

Nicole Thomas from Sierra Grand High School in Blanca, CO, grade 12, for the project: *WNC 230-14RU Resistant Or Immune To Potato Leaf Roll Virus.*

Brandon Rosgen from Pagosa Springs High School in Pagosa Springs, CO, grade 11, for the project: *River Banks – Nature’s Erodible Boundries.*

Craig Wright from Woodlin High School in Woodrow, CO, grade 10, for the project: *Designing A Linear Peristaltic Pump Using Ferrofluids.*

Jessica Caver from Woodlin High School in Woodrow, CO, grade 11, for the project: *Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams.*

April Mertens from Merino Jr/Sr High School in Merino, CO, grade 12, for the project: *A Promising Cancer Treatment: Tumor Suppression Using The Synergism of NSAID and Aloe.*

Colin Oldberg from Coronado High School in Colorado Springs, CO, grade 9, for the project: *Light-Operated Logic.*

Josh Haimes from Boulder High School in Boulder, CO, grade 12, for the project: *WGA Amplification And Thin Film Detection Of Methicillin Resistant/Sensitive Staphylococcus aureus.*

Amber Henry from Hi-Plains High School in Seibert, CO, grade 10, for the project: *An Algorithm Demonstrating Impact SplatterPattern Due To Angle Of Incidence Using A Dichotomous Key.*

Holly McGuire from Woodlin High School in Woodrow, CO, grade 11, for the project: *Comparing Extracted And Amplified Mitochondrial DNA.*

Kristen Rasmussen and **Aaron Burgess** from Fairview High School in Boulder, CO, grade 11, for the project: *Aircraft Icing: Why Does It Happen?.*

Ryan Patterson Scholarship

Lila Hickey from Brush High School in Brush, CO, grade 12, for the project: *Up & Downs: Simulated Elevator Control.*

(See Press Release – Appendix 2 – for all award winners.)

2002 Intel International Science and Engineering Fair

CSEF's top three winners, Craig Wright from Woodlin High School, Josh Haimes from Boulder High School, and Kristen Rasmussen & Aaron Burgess from Fairview High School represented Colorado at the Intel International Science and Engineering Fair (Intel ISEF) which is the culmination of each year's science fair experience. The 53rd Intel ISEF was held this year from May 12-18, 2002, in Louisville, KY.

Craig Wright won 4th Place in the category of Engineering (\$500) and a special award from IEE – Louisville Section of \$100.

Josh Haimes won 4th Place in the category of Microbiology (\$500).

Kristen Rasmussen and **Aaron Burgess** were awarded Honorable Mention from the American Meteorological Society – a CD ROM and a subscription to “Bulletin of the American Meteorological Society.”

Other attendees from Colorado also receiving awards were:

Brian Camley of Colorado Springs, CO, Biochemistry Category Award – 3rd place for \$1,000.

Pascal Getreuer of Colorado Springs, CO Computer Sciences Category Award – 4th place for \$500 and a special award from the American Association for Artificial Intelligence of \$1,000.

Jessica Cavar of Deer Trail, CO, Environmental Sciences Award – 4th place for \$500 and a Mexico Institute of Mining and Technology full tuition scholarship.

Michelle Itano of Boulder, CO, Zoology Category Award – 2nd place for \$1,500.

Adam Curry of Palisade, CO, received the technical volume in engineering geology, “The Glossary of Geology”, and a subscription to “Geotimes” as well as \$200 from the Patent and Trademark Office/US Department of Commerce/Patent and Trademark Office.

Michelle Keck of Monte Vista, CO, Honorable Mention from the American Psychological Association – APA/Intel ISEF pin, pamphlet on career choices in psychology, and dot com Sense pamphlet on internet privacy.

Sara McFarland of Hoehne, CO, \$5,000 scholarship per year for four years from Midway College.

The Intel International Science and Engineering Fair is the Olympics, the World Cup and the World Series of science competitions. Held annually in May, the Intel ISEF brings together over 1,200 students from 48 states and 40 nations to compete for scholarships, tuition grants, internships, scientific field trips and grand prizes.

Organization

The Colorado Science and Engineering Fair would not be possible without the dedication and tremendous efforts of many committed individuals and organizations including school districts, universities, government agencies, corporations, and professional associations. The groups sustain the fair through financial and resource support, special awards, and most importantly, through providing dedicated volunteers to serve on the fair's many working committees.

It is no exaggeration to say that state fair volunteers indeed make the fair possible each year by serving on the Advisory Council and its various committees. They and others also serve as judges for the Colorado Science and Engineering Fair. Prior to the statewide event, thirteen regional fairs and a great number of local school fairs are conducted throughout the state; each of these fairs is supported and promoted by hardworking and dedicated educators at the local level. Before a student's exhibit even makes it to a local fair, it requires the encouragement and support from individual teachers, sponsors, and parents to help students see their projects through from inception to finished exhibit. The Colorado Science and Engineering Fair is a product of all of these people.

The success of each year's Colorado Science and Engineering Fair is directly dependent upon the support of public and private organizations, government agencies, school districts, and universities, as well as on the efforts and coordination of more than three hundred committed volunteers. To organize and stage the fair every year requires a great effort, but it also offers many personal challenges and rewards. To witness the level of achievement, pride, and excitement of these bright young people in their scientific endeavors is one of the rewards that all of the volunteers share, and it also speaks to the high level of students' aptitude and enthusiasm for science in Colorado.

Goals and Objectives

The Colorado State Science Fair, Inc. is an organization that:

- ? Organizes the infrastructure of the Colorado Science and Engineering Fair for students from all regions of the state of Colorado to present science projects to judges, representatives of scientific organizations, the public, and their peers;
- ? Honors winners from Colorado regional science fairs at the annual Colorado Science and Engineering Fair;
- ? Sends finalists from the state of Colorado to the Intel International Science and Engineering Fair (Intel ISEF);
- ? Provides experiences for Colorado students to interact with their peers, with Colorado science teachers and Colorado scientists and engineers in professional and social settings;
- ? Promotes science, engineering and technology as careers, inspiring excellence, high ethical standards and emphasizing the immense satisfaction that comes from confronting and solving intellectual problems and serving societal needs;
- ? Reinforces in students the wonder nature instills, wherever and however possible empowering them to follow their questions and dreams; and
- ? Encourages a culture that values and nurtures diversity.

We support regional science fairs by:

- ? Acting as an alternative to the Science Service affiliation as a means of attending the Intel ISEF;
- ? Providing a forum where regional science fairs can influence policies, rules and by-laws for the state science fair;
- ? Providing rules and requirements for participation in the Colorado Science and Engineering Fair;
- ? Facilitating communication, where practical, between regional science fairs and their participants;
- ? Providing information and resources to the regional fair directors, teachers and students which will promote interest in science, engineering and technology, and excellence in scientific research; and
- ? Increasing public awareness and appreciation of science, engineering, and technology in the schools.

Mission Statement

- ? Colorado State Science Fair, Inc. honors excellence in science, engineering and technology; providing opportunities for students from all regions of the state to create and present their research in environments that nurture interest in science and technology; promoting professional skills, high ethical standards, diversity, and continuing intellectual development.

Colorado Science and Engineering Fair sponsors provide the majority of the financial and resource support. In addition, each sponsor may provide two volunteers to serve on the Fair Board of Directors.

PLATINUM SPONSORS

(Providing over \$2500 in support of CSEF)

Colorado State University, Office of the Provost and College of Engineering
Hach Scientific Foundation

GOLD SPONSORS

(Providing \$1000 to \$2500 in support of the CSEF)

Agilent Technologies
Anheuser-Busch Inc.
Ball Corporation
Ball Aerospace and Technologies
Colorado Dental Association
Colorado Medical Society-Education Foundation
Domino's of Fort Collins
Kodak Colorado Division
Lockheed Martin Astronautics
LSI Logic
Safe Sites of Colorado, LLC
Seagate Technology
US Department of Commerce/NTIA

SILVER SPONSORS

(Providing \$750 to \$1000 in support of the CSEF)

US Department of Commerce/NIST

REGULAR SPONSORS

(Providing \$500 to \$750 in support of CSEF)

Amgen, Inc	Washington Group International
Reid & Helen Cameron	US Department of Commerce/NOAA
Colorado Engineering Council	Denver Chapter of the IEEE/LEOS
Forest Oil Company	CSU-Center for Science, Mathematics & Science Technology Education
Hewlett-Packard Company	National Renewable EnergyLab
Kaiser-Hill Company	University of Colorado - College of Engineering and Applied Science
Norgren	
San Luis Valley Regional Science Fair	

CONTRIBUTORS

(Providing up to \$500 in support of CSEF)

Ed & Lucy Adams	Sigma Xi, CSU Chapter
Albertson's	Target
Sam & Eileen Bartlett	Tracy Teyler Memorial
Dan & Carol Blake	USR Corporation
Book Center of the Rockies	Walmart
Denver Nuggets	Xcel Energy Foundation-Dollars for
Gina Holland	Doing Program
King Soopers	Xcel Energy Foundation – Matching
Robert & Dolly Morrow	Gifts Program

And many federal employees contributed through the Combined Federal Campaign.

LYNN BUTLER MEMORIAL SCHOLARSHIP

The CSSF, Inc. Board of Directors has established the Lynn Butler Memorial Scholarship Fund to assist low-income finalists in paying their CSEF registration fee. Lynn Butler was the CSEF Fair Director for the 1991 Fair, as well as a hard working, dedicated volunteer for CSEF and for science students statewide until her death in 1996.

ADVISORY COUNCIL

The CSEF Advisory Council includes all Regional Fair Directors, the CSSF Inc. Board of Directors and members at large.

Colorado State Science Fair, Inc. - Board of Directors

President - Harvey Teyler
Vice President - Al Bedard
Treasurer - Samuel Bartlett
Secretary - David Holm
Recording Secretary - Lucy Adams
CSEF Director - Courtney Butler
Colorado Dental Association - Carol Denning, Robert Morrow,
Colorado Energy Science Center - Patrick Keegan
Colorado Engineering Council - Sam Bartlett, Gina Holland
Colorado Medical Society - A. Bill Kieger, William Pierson
Colorado State University - Ed Geary, Rick Miranda
Kodak Colorado Division - Phil Montera
Lockheed Martin Astronautics - Paul Cheng, John Parker
NREL-Midwest Research Institute - Daniel Blake, Bonnie Hames
LSI Logic - Vishy Lakshamanan
Reid & Helen Cameron - Reid Cameron, John McConnell
Safe Sites of Colorado, LLC - Mike Bemski, John O'Brien
San Luis Valley Regional Science Fair - David Holm, Harvey Teyler
University Of Colorado, Engineering and Applied Science - Sherry Snyder
US Department of Commerce/NIST - Bill Dube, Sonja Ringen
US Department of Commerce/NOAA - Al Bedard, David Clark
US Department of Commerce/NTIA - Amy Weich

Advisory Council - Members At Large

Gary Church	Russ Schnell
Jane Cowden	Deanna Schrock
Lisa Hatcher	Brandi Scruggs
Larry Jakel	Jim Sites
Charles Johnson	Doug Steward
Carol Kallevik	Rachel Torgerson
Beverly Meier	Laura Ussery
Jody Oaks	Dan Van Gorp

Past Colorado Science and Engineering Fair Directors

*Charles Bragaw	1956-1967
*Calvin Fisher	1968-1974
*Sam Shushan	1975-1977
Gordon Moore	1978-1979
*Russell B. Stoner	1979-1981
Virgil A. Sandborn	1981-1983
James R. Sites	1984-1985
Lloyd Walker	1986-1988
Connie Vader-Lindholm	1989-1990
Lynn Butler	1991-1992
Kate Taylor	1992-1994
Christal McDougall	1995-1996
Kate Taylor	1997-1998
Lucy Adams	1998-1999
Courtney Butler	1999-present

*Director Emeritus for outstanding contribution to CSEF and more than two years of service as CSEF Director.

Regional Science Fairs

Arkansas Valley Regional Science Fair

Joel Grey, Jim Herrell

Boulder Valley Regional Science Fair

Kym Monacelli, Val Havlick

Denver Metropolitan Science Fair

Jim Stevens, Kristina Wenzel

East Central Regional Science Fair

William Mallory, Marguerite Yowell

Lamar Community College (Southwest) Regional Science Fair

Terry Lira, Robin Staker

Longs Peak Regional Science Fair

Terry Scott, Courtney Willis

Morgan-Washington Bi-County Regional Science Fair

Elemer Bernath, Nancy Gettman

Northeastern Regional Science Fair

Gina Brandt

Pikes Peak Regional Science Fair

Georgia Matteson

San Juan Basin Regional Science Fair

Martha Iverson

San Luis Valley Regional Science Fair

Lucy A. Adams, Crystal Miller

Western Regional Science Fair

Harmony Voorhies, Rob Robison

Working Committees

Alumni (CSEF)	<u>Bob Morrow</u>
Awards Ceremony	<u>Courtney Butler</u> (CSEF Director), Harvey Teyler (CSSF, Inc. President), Al Bedard (CSSF, Inc. Vice President), Sam Bartlett (CSSF, Inc. Treasurer & Special Awards Chair), Gina Holland (Grand Awards Judging Chair), John Parker (announcer), Bonnie Hames (announcer)
Display and Safety	<u>Dan Van Gorp</u> , Elemer Bernath (SRC Chair), Sonja Ringen, Deanna Schrock
Finance	<u>Dan Blake</u> , Bob Morrow (CSSF, Inc. Past President), Harvey Teyler (CSSF, Inc. President), Al Bedard (CSSF, Inc. Vice President), Sam Bartlett (CSSF, Inc. Treasurer), David Holm (CSSF, Inc. Secretary), Courtney Butler (CSEF Director), Reid Cameron, John McConnell
Grand Awards Judging	<u>Gina Holland</u> , Bonnie Hames
Photography	<u>Amy Weich</u> , Eileene Gooding (awards ceremony)
Publicity	<u>Dave Clark</u> , Al Bedard (CSSF, Inc. Vice President), Gary Wilson
Registration	<u>Courtney Butler</u> , Lucy Adams
Room Set-Up	<u>Jim Sites</u> , Laura Ussery, Courtney Butler (CSEF Director)
Scholarships	David Holm (CSU), Lucy Adams (ASC), Jane Cowden (CSM), Judy Cara (Intel)
Scientific Review	<u>Elemer Bernath</u> , Charles Johnson, Doug Steward, Jody Oaks, Lucy Adams, Courtney Butler, Larry Jakel, Brandi Scruggs
Special Awards	<u>Sam Bartlett</u> , Paul Cheng, Beverly Meier
Student Activities	<u>Lucy Adams</u> , David Holm (CSSF, Inc. Secretary)
Tours -	
Volunteer Coordination	<u>Courtney Butler</u> (CSEF Director)

Underlined names are the chairs of those committees.

Budget Report
September 1, 2001 through August 31, 2002

Category Descriptions	Budget	Actual	Difference
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INCOME			
Sponsorships	\$ 26,450.00	\$ 24,550.00	\$ (1,900.00)
Contributions	\$ 2,495.00	\$ 2,237.50	\$ (257.50)
In-Kind	\$ 4,900.00	\$ 7,417.60	\$ 2,517.60
Registrations	\$ 10,710.00	\$ 10,570.00	\$ (140.00)
Interest	\$ 500.00	\$ 474.40	\$ (25.60)
Other	\$ 1,100.00		\$ 3,768.50
<i>Misc. Sales</i>		\$ 80.00	
<i>Tour Tickets</i>		\$ 198.50	
<i>Photo Sales</i>		\$ 590.00	
<i>Scholarships</i>		\$ 4,000.00	
TOTAL INCOME	\$ 46,155.00	\$ 50,118.00	\$ 3,963.00

EXPENSES

Awards Ceremony			
Cash Awards	\$ 4,075.00	\$ 4,075.00	\$ -
Other Awards	\$ 700.00	\$ 4,749.26	\$ (4,049.26)
Photos	\$ 300.00	\$ 465.30	\$ (165.30)
Press Release	\$ 350.00	\$ 381.50	\$ (31.50)
Room Rental	\$ 500.00	\$ -	\$ 500.00
Total Awards Ceremony	\$ 5,925.00	\$ 9,671.06	\$ (3,746.06)

CSSF, Inc. Board			
Communications	\$ 514.00	\$ 473.78	\$ 40.22
Equipment	\$ -	\$ -	\$ -
Meetings	\$ 700.00	\$ 628.44	\$ 71.56
Operations	\$ 5,500.00	\$ 5,864.28	\$ (364.28)
Services	\$ -	\$ -	\$ -
Supplies	\$ 600.00	\$ 183.07	\$ 416.93
Total CSSF, Inc. Board	\$ 7,314.00	\$ 7,149.57	\$ 164.43

Finalists			
Activities	\$ 6,600.00	\$ 6,946.30	\$ (346.30)
Publications	\$ 1,045.00	\$ 1,144.06	\$ (99.06)
Registration	\$ 2,180.00	\$ 2,137.05	\$ 42.95
Room Rental	\$ 750.00	\$ 750.00	\$ -
Total Finalists	\$ 10,575.00	\$ 10,977.41	\$ (402.41)

ISEF			
Affiliation	\$ 500.00	\$ 500.00	\$ -
Travel	\$ 6,125.00	\$ 3,618.70	\$ 2,506.30
Total ISEF	\$ 6,625.00	\$ 4,118.70	\$ 2,506.30

Judging			
Communications	\$ 1,270.00	\$ 1,421.60	\$ (151.60)
Room Rental	\$ 260.00	\$ 160.00	\$ 100.00
Supplies	\$ 150.00	\$ 95.03	\$ 54.97
Thank Yous	\$ 3,075.00	\$ 2,719.85	\$ 355.15
Total Judging	\$ 4,755.00	\$ 4,396.48	\$ 358.52

Other Fair Expenses			
Fund Raising	\$ 100.00	\$ 134.23	\$ (34.23)
Personnel	\$ 3,800.00	\$ 3,930.81	\$ (130.81)
Publicity	\$ 750.00	\$ 865.64	\$ (115.64)
Regional Fair Directors	\$ 350.00	\$ 97.66	\$ 252.34
Supplies	\$ 250.00	\$ 259.93	\$ (9.93)
Volunteers	\$ 1,000.00	\$ 990.02	\$ 9.98
Total Other Fair Expenses	\$ 6,250.00	\$ 6,278.29	\$ (28.29)

SRC/Display & Safety			
Communications	\$ 100.00	\$ 7.02	\$ 92.98
Meetings	\$ 600.00	\$ 480.18	\$ 119.82
Supplies	\$ 200.00	\$ 77.52	\$ 122.48
Total SRC/Display & Safety	\$ 900.00	\$ 564.72	\$ 335.28

TOTAL EXPENSES	\$ 42,344.00	\$ 43,156.23	\$ (812.23)
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INCOME - EXPENSES	\$ 3,811.00	\$ 6,961.77	\$ 3,150.77
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47TH ANNUAL COLORADO SCIENCE AND ENGINEERING FAIR

Lory Student Center

Fair Headquarters: 2nd Floor Lobby

Colorado State University

THURSDAY, APRIL 11, 2002

8:30 - 9:00 AM Photography and Display & Safety Committee Meetings: Main Ballroom

9:00 - 11:00 AM **FINALIST CHECK-IN:** Exhibit Areas Open for Set-Up.

*Finalists **MUST** stay with exhibit until Exhibit Safety Check-Off Sheet is signed by a Display & Safety Committee Member and an Official Photo has been taken. Finalists must be out of the Exhibit Areas by noon.*

10:30 - 11:00 AM Grand Awards Judge Captain's Briefing: Cherokee Park Room

11:00 - 11:30 AM Grand Awards Judge's Briefing: Cherokee Park Room

11:30 AM - 12:30 PM Grand Awards Judge's Luncheon: North Ballroom

12:30 - 1:00 PM Special Awards Judge's Briefing: Room 228

12:00 - 5:00 PM JUDGING

12:00 - 1:00 PM	<u>Grand Awards Judges</u> only in exhibit areas.
1:00 - 2:00 PM	Special Awards Judges may enter exhibit areas. <u>Judges only</u> in exhibit areas.
2:00 - 5:00 PM	Students must be at their exhibits for interviews.
5:30 PM	EXHIBIT AREAS ARE LOCKED: Final Grand Awards Judging continues

No one else is permitted in the exhibit areas at this time.

1:45 - 2:00 PM **Finalist Orientation Meeting:** CSU Theatre -- *Mandatory for all exhibitors.*

2:00 - 5:00 PM Parent/Teacher/Sponsor's Lounge: Refreshments in Room 203/205

2:00 - 4:00 PM Regional Fair Director's Meeting: Room 224/226

4:00 PM All ISEF Adult Delegates Meeting: Room 224/226

FRIDAY, APRIL 12, 2002

9:00 AM - 5:00 PM **CSEF OPEN TO PUBLIC:** Main Ballroom

9:00 - 9:50 AM Guest Speaker: Dr. Carl Wieman, 2001 Nobel Laureate: CSU Theatre

10:30 AM - 11:30 AM Special Presentation: Ryan Patterson, the 2001 CSEF and ISEF winner will be giving a special presentation on his award winning project and highlights of his exciting year. Room 230 LSC

10:00 AM - 4:00 PM Tours: Students, their sponsors, family, and judges are invited to participate in the tours by pre-registering on Thursday morning.

7:00 PM **AWARDS CEREMONY:** Thompson Valley High School

SATURDAY, APRIL 13, 2002

8:00 - 9:00 AM Intel/ISEF trip winners and teachers must meet with CSEF Director to go over paperwork and travel arrangements: 2nd Floor Lobby LSC

9:00 - 11:00 AM **CSEF OPEN TO PUBLIC:** *Finalists must be at their exhibits.*

9:00 - 11:00 AM Advisory Council Meeting: Room 224/226

11:00 AM - 12:00 PM **PIZZA PARTY:** North Ballroom
Sponsored by *Dominoes of Fort Collins* for finalists, their sponsors and families.
Finalists must be present to win door prizes!

12:30 - 2:00 PM CSSF, Inc. Board of Director's Meeting: Room 224/226

12:00 - 2:00 PM Exhibit Dismantling: **Everything must be removed by 2:00 PM.**

Upcoming Intel/International Science and Engineering Fair, Louisville, KY, May 12 - 18, 2002.

NEXT YEAR'S COLORADO SCIENCE AND ENGINEERING FAIR: APRIL 10 - 12, 2003.

2002 Colorado Science and Engineering Fair
Grand Awards Press Release

Junior All Fair

1st Place

Meredith MacGregor 7th grade
Avalanche! A Search For Self-Organized Criticality
Burbank Middle School
Boulder, CO

2nd Place

Adam Sidman 8th grade
Wind Turbine Design
North Middle School
Colorado Springs, CO

3rd Place

Nathan McNew 8th grade
Investigation Of Prime Numbers
Jefferson Academy Junior High School
Arvada, CO

Senior All Fair

1st Place

Craig Wright 10th grade
Designing A Linear Peristaltic Pump Using Ferrofluids
Woodlin High School
Akron, CO

2nd Place

Josh Haimes 12th grade
WGA Amplification And Thin Film Detection Of Methicillin Resistant/Sensitive Staphylococcus aureus
Boulder High School
Boulder, CO

3rd Place

Aaron Burgess 11th grade
Kristen Rasmussen 11th grade
Aircraft Icing: Why Does It Happen?
Fairview High School
Boulder, CO

Junior Botany

1st Place

Harold Klausner 8th grade
Available Nitrogen vs. Legume Nodulation
Woodlin High School
Woodrow, CO

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, CO

3rd Place

Ashley Button 6th grade
Don't Invade My Space
Fort Lupton Middle School
Fort Lupton, CO

Honorable Mention

Chris Messick 7th grade
The Role Of Preservatives In The Delay Of Senescence Of Cut Flowers
Sargent Junior High School
Monte Vista, CO

Honorable Mention

Emily Woods 6th grade
Secret Weapons: Allelochemicals In Plants
Summit Middle School
Boulder, CO

Honorable Mention

Mathew Brennan 7th grade
This Is My Space - The Impact Of Allelopathy
St. Columba School
Durango, CO

Honorable Mention

Kevin Hurd 7th grade
Jack, Check Your Soil's pH before You Plant Your Beans!
Holy Family Catholic School
Grand Junction, CO

Honorable Mention

Jed Michal 8th grade
Depth vs. Development
Arriba-Flagler Middle School
Flagler, CO

Honorable Mention

Bradley Hertneky 8th grade
The Role Of Polymers In Crop Drought Tolerance
Burlington Middle School
Burlington, CO

Senior Botany

1st Place

Nicole Thomas 10th grade
WNC 230-14RU Resistant Or Immune To Potato Leaf Roll Virus
Sierra Grande High School
Blanca, CO

2nd Place

Jacqueline Consaul 11th grade
A Study On The Interaction Between Blackleg And PVY On Potatoes
Del Norte High School
Center, CO

3rd Place

Wumesh Khatri 12th grade
Glycolysis In Isoprene-Emitting Chloroplasts
Boulder High School
Boulder, CO

Honorable Mention

Levi Klausner 11th grade
Selecting For Salt Tolerance In 5 Varieties Of Wheat
Woodlin Undivided High School
Woodrow, CO

Honorable Mention

Tyler Benton 9th grade
An Ecological Study Of The Efficacy Of The Conservation Reserve Program
 Stratton High School
 Vona, CO

 Junior Earth & Space Sciences
1st Place

Annie Sandner 8th grade
Aerodynamics Of Modern Rocketry
 St. Columba School
 Durango, CO

2nd Place

Jeffrey Hrnir 7th grade
Dinosaur Tracks
 East Middle School
 Grand Junction, CO

3rd Place

Lena Martin 7th grade
Time: Sun vs. Clock
 Genoa-Hugo Middle School
 Genoa, CO

Honorable Mention

Will Scripps 6th grade
Which Helicopter Floats Slowest?
 Evergreen Mountain School
 Evergreen, CO

 Senior Earth & Space Sciences
1st Place

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

2nd Place

Adam Curry 12th grade
The Cosmic Early Warning
 Palisade High School
 Palisade, CO

3rd Place

Renee Musgrave 9th grade
Rainbow Lightning?
 Liberty High School
 Yuma, CO

 Junior Engineering
1st Place

Adam Sidman 8th grade
Wind Turbine Design
 North Middle School
 Colorado Springs, CO

2nd Place

Matthew Rotbart 8th grade
Modeling The Collapse Of The World Trade Center: The Effect Of Heat On The Tensile Strength Of Steel
 Rocky Mountain Hebrew Academy
 Denver, CO

3rd Place

Joseph Kelly 7th grade
How Well Does A Directional Antenna Concentrate Radio Energy?
 St. John the Evangelist School
 Loveland, CO

Honorable Mention

Devin Adam 8th grade
A Hot Idea For A Cool Computer
 Crawford Elementary School
 Crawford, CO

Honorable Mention

Molly May 6th grade
A Comparison Of Tensile Strength Of Various Materials
 St. Columba School
 Durango, CO

Honorable Mention

Daniel Weidlein 6th grade
Into The Wind: Wind Powered Cars
 Summit Middle School
 Boulder, CO

Honorable Mention

Steven Mitton 7th grade
Holy Hovercraft
 Mancos Middle School
 Mancos, CO

 Senior Engineering
1st Place

Craig Wright 10th grade
Designing A Linear Peristaltic Pump Using Ferrofluids
 Woodlin Undivided High School
 Akron, CO

2nd Place

Robert Ussery 10th grade
Autonomous UAV Design
 Ussery Home School
 Fort Collins, CO

3rd Place

Justin Migacz 11th grade
Thermal Degradation Of Josephon Junctions
 Cherry Creek High School
 Englewood, CO

Honorable Mention

Michael Yurkoski 11th grade
Rarr - An Alternative To Human Reconnaissance
 Broomfield High School
 Broomfield, CO

Honorable Mention

Craig Bryan 11th grade
Vulcan Block II
 Sargent High School
 Monte Vista, CO

Honorable Mention

Emma McArdle 11th grade
Is Your Roof Snow Proof?
 Monte Vista High School
 Monte Vista, CO

Honorable Mention

Dak Steiert 11th grade
Ramjet Propulsion For High Altitude Launch And Research
 Battle Mountain High School
 Edwards, CO

Honorable Mention

Leyton Laybourn 10th grade
The Best Superinsulator
 Arickaree Undivided High School
 Cope, CO

 Junior Environmental Sciences
1st Place

Meaghan Kormondy 8th grade
Paper Or Plastic?
 St. Mary's School of Littleton
 Highlands Ranch, CO

2nd Place

Maggie Reinsvold 8th grade
The Effect Of Magnesium Chloride On Decomposition
 Frontier Academy
 Greeley, CO

3rd Place

Jacque Beckvermit 8th grade
Do You Drink Undrinkable Water?
 Turner Middle School
 Berthoud, CO

Honorable Mention

Laura Biggins 8th grade
The Effect Of Wood Extracts On The Germination Of Seeds
 Boltz Junior High School
 LaPorte, CO

Honorable Mention

Anna Hermann 6th grade
Under The Stream: Using Aquatic Insects To Determine Water Quality
 Summit Middle School
 Louisville, CO

Honorable Mention

Lyle Hoffschneider 7th grade
"Black Gold" Particles: Comparing Particles Of Fuel Sources
 Pagosa Springs Junior High School
 Pagosa Springs, CO

Honorable Mention

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

Honorable Mention

Cacia Steensen 7th grade
Does Pollution Affect Oxygen Production In Aquatic Plants?
 West Jefferson Middle School
 Pine, CO

Senior 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, CO

2nd Place

Benjamin Howard 12th grade
An Evaluation Of The Effectiveness Of Reformulated Gasoline In Reducing Urban Benzene Concentrations
 Fairview High School
 Boulder, CO

3rd Place

Katherine Hermann 9th grade
Predicting Water Quality With Landscape Metrics
 Boulder High School
 Louisville, CO

Honorable Mention

Stephen Canham 12th grade
Prevention Of Soil Salinization From A Rising Water Table
 Cherry Creek High School
 Greenwood Village, CO

Honorable Mention

Christine Knoblauch 12th grade
Where's It Coming From?
 Monte Vista High School
 Del Norte, CO

Junior Health & Behavioral Sciences

1st Place

Jeff Loewe 8th grade
Pick Up The Beat
 Evangelical Christian Academy
 Colorado Springs, CO

2nd Place

Kelly Cook 8th grade
Is What You See What You Get?
 Boltz Junior High School
 Fort Collins, CO

3rd Place

Allison Qubain 8th grade
Into Thin Air
 Gardner Elementary School
 Gardner, CO

Honorable Mention

Andrea Buxton 8th grade
Fluoride: When Is Enough
 Eads Junior High School
 Lamar, CO

Honorable Mention

Hannah Lowinger 8th grade
Type A GPA - Are They Synonymous?
 Rocky Mountain Hebrew Academy
 Englewood, CO

Honorable Mention

Ian Springer 7th grade
Lunar Changes And Their Effect On Human Behavior
 Lamar Middle School
 Lamar, CO

Honorable Mention

T. J. Van Bibber 7th grade
You Are What You Eat
 Sargent Junior High School
 Monte Vista, CO

Honorable Mention

Kelly Dimmen 6th grade
Stop In The Name Of The Law
 Sabin Middle School
 Colorado Springs, CO

 Senior 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, CO

2nd Place

Jaymee Jungie 11th grade
Manipulation Of The Krebs's Cycle
 Cherry Creek High School
 Englewood, CO

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, CO

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, CO

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, CO

Honorable Mention

Krista Schroeder 9th grade
Feeling Smart
 Palmer High School
 Colorado Springs, CO

 Junior Mathematics & Computer Sciences
1st Place

Nathan McNew 8th grade
Investigation Of Prime Numbers
 Jefferson Academy Junior High School
 Arvada, CO

2nd Place

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

3rd Place

Timothy Schneider 6th grade
Programmable Vacuum Cleaner
 Miller Middle School
 Durango, CO

Honorable Mention

Max Krakauer 6th grade
Good To The Last Drop: The World Oil Shortage Simulator
 North Middle School
 Colorado Springs, CO

 Senior Mathematics & Computer Sciences
1st Place

Colin Oldberg 9th grade
Light-Operated Logic
 Coronado High School
 Colorado Springs, CO

2nd Place

Amanda Parker 9th grade
Not So Perfect Sine Waves: A Fourier Analysis Of An Audio Oscillator
 Cherry Creek High School
 Centennial, CO

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, CO

Honorable Mention

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

Honorable Mention

Paul Scott 10th grade
Knotty Knumpers: Calculating Alexander's Polynomial
 Woodlin High School
 Akron, CO

 Junior Microbiology
1st Place

Kelly Valdes 8th grade
Thieves Steal Bacteria
 St. Mary's School of Littleton
 Littleton, CO

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, CO

3rd Place

Jesse Sindler 7th grade
Somewhere Over The Rainbow, Fungi Fly
 Canon City Middle School
 Canon City, CO

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, CO

Honorable Mention

Alex Schnaderbeck 6th grade
Density Of Bacteria On Public Surfaces
 Sargent Elementary School
 Monte Vista, CO

 Senior Microbiology
1st Place

Josh Haimes 12th grade
WGA Amplification And Thin Film Detection Of Methicillin Resistant/Sensitive Staphylococcus aureus
 Boulder High School
 Boulder, CO

2nd Place

Sara McFarland 11th grade
The Effect Of Triclosan On Antibiotic
 Hoehne High School
 Trinidad, CO

3rd Place

Lauren Goulding 9th grade
Chemical Memory: Can Physarum Polycephalum Reproduce A Pattern?
 Palmer High School
 Colorado Springs, CO

Honorable Mention

Lauryn Etl 10th grade
Antioxidants: Youth At Your Fingertips
 Fleming High School
 Fleming, CO

 Junior Physical Sciences
1st Place

Meredith MacGregor 7th grade
Avalanche! A Search For Self-Organized Criticality
 Burbank Middle School
 Boulder, CO

2nd Place

Megan Emmons 7th grade
Friction Over Tribology
 Del Norte Middle School
 Alamosa, CO

3rd Place

John Wilkinson Jr. 8th grade
Sailing With Wind Power!
 Mountain Ridge Middle School
 Colorado Springs, CO

Honorable Mention

Adreanne Brungardt 7th grade
Shake It Up: A Study On Size Separation
 Brush Middle School
 Brush, CO

Honorable Mention

Tyler Hutchinson 6th grade
Catalysts, The Chemical Matchmakers
 Holy Family Catholic School
 Grand Junction, CO

Honorable Mention

Matt Zubiell 6th grade
Predicting UHF Radio Range From Antenna Height
 Creekside Middle School
 Monument, CO

Honorable Mention

Rebecca Richardson 7th grade
Sodium Bicarbonate And pH: What Can It Lead To?
 Berry Creek Middle School
 Avon, CO

 Senior Physical Sciences
1st Place

Amber Henry 10th grade
An Algorithm Demonstrating Impact Splatter Pattern Due To Angle Of Incidence Using A Dichotomous Key
 Hi-Plains High School
 Joes, CO

2nd Place

Adam Brungardt 11th grade
Spinning Samaras: A Study Into Seed Distribution
 Brush High School
 Brush, CO

3rd Place

Leota McDaniel 11th grade
An Investigation Into The Weissenberg Phenomenon
 Brush High School
 Brush, CO

Honorable Mention

Kyle Atwater 10th grade
Trebuchet Ballistics
 Woodlin Undivided High School
 Genoa, CO

Honorable Mention

William Eucker 10th grade
Metallurgical Characteristics Of The Sacagawea Dollar
 George Washington High School
 Denver, CO

 Junior Zoology
1st Place

Marty Sandberg 8th grade
Rat Race
 St. Mary's School of Littleton
 Littleton, CO

2nd Place

Lisa Harms 7th grade
Got Silk?
 Haxtun Middle School
 Haxtun, CO

3rd Place

Timothy Sauer 8th grade
Oh, Rats!
 St. Mary's School of Littleton
 Littleton, CO

Honorable Mention

Travis Justin Garoutte 6th grade
Pupation Creation
 Centauri Middle School
 Antonito, CO

 Senior Zoology
1st Place

Holly McGuire 11th grade
Comparing Extracted And Amplified Mitochondrial DNA
 Woodlin Undivided High School
 Lindon, CO

2nd Place

Robert Bernton 9th grade
In Vivo PLA2 Inhibition
 Rocky Mountain Hebrew Academy
 Littleton, CO

3rd Place

Kori Tagtmeyer 9th grade
*Determining Failure Of Passive Transfer In Neonatal Bovine Based
 On Immunoglobulin G Levels*
 Hi-Plains High

Honorable Mention

Trixie Lee 12th grade
The Squeeze Is On: Overcoming Overpopulation
 Fleming High School
 Crook, CO

Honorable Mention

Matthew Simes 12th grade
*Relative Abundance Of Ponderosa Pine Bird Species Along An
 Elevational Gradient*
 Centaurus High School
 Lafayette, CO

 Junior Team Projects
1st Place

Alex West 8th grade
 Andrew West 6th grade
I'm Exhausted
 West Jefferson Middle School
 Conifer, CO

2nd Place

Jessica Nygren 8th grade
 Caresse Wagner 8th grade
Spaced Out
 St. Mary's School of Littleton
 Littleton, CO

3rd Place

Danika Friedley 7th grade
 Whitney Howard 7th grade
Erosion And The Formation Of Alluvial Fans
 Bayfield Middle School
 Bayfield, CO

Honorable Mention

Noah Husek 8th grade
 Jonathan Wolfe 8th grade
Kids Don't Bounce
 Burbank Middle School
 Boulder, CO

Honorable Mention

Hannah Schumacher 7th grade
 Erin Luck 7th grade
Burning Up
 Burbank Middle School
 Boulder, CO

 Senior Team Projects
1st Place

Aaron Burgess 11th grade
 Kristen Rasmussen 11th grade
Aircraft Icing: Why Does It Happen?
 Fairview High School
 Boulder, CO

2nd Place

Eric King 12th grade
 David Van Wagener 12th grade
Significant Factors That Affect Perception Of Location
 Cherry Creek High School
 Englewood, CO

3rd Place

David Sanford 11th grade
 Adam Ginsburg 11th grade
*Computer Simulation Of Stability Of The Orbits In A Multi-Planet
 System*
 Cherry Creek High School
 Englewood, CO

Honorable Mention

Brittani Cliff 10th grade
 Breanna Anderson 10th grade
*Stress And Immunity: Qualification Of Immunoglobulin G And
 Leukocytes*
 Akron High School
 Akron, CO

Honorable Mention

David Wacker 10th grade
 Curtis Larimer 10th grade
The Collatz Code
 Palmer High School
 Colorado Springs, CO

2002 Colorado Science and Engineering Fair
Special Awards Press Release

Military

Sponsor: United States Army
United States Army Award
certificate, \$50 savings bond
Jaymee Jungie 11th grade
Cherry Creek High School Englewood, CO
Manipulation Of The Krebs's Cycle

Sponsor: United States Army
United States Army Award
certificate, \$50 savings bond
Amber Henry 10th grade
Hi-Plains High School Joes, CO
An Algorithm Demonstrating Impact Splatter Pattern Due To Angle Of Incidence Using A Dichotomous Key

Sponsor: United States Army
United States Army Award
certificate, \$50 savings bond
Michael Yurkoski 11th grade
Broomfield High School Broomfield, CO
Rarr - An Alternative To Human Reconnaissance

Sponsor: United States Army
United States Army Award
certificate, \$50 savings bond
Katherine Hermann 9th grade
Boulder High School Louisville, CO
Predicting Water Quality With Landscape Metrics

Sponsor: United States Army
United States Army Award
certificate, silver medallion, \$100 savings bond
Amanda Parker 9th grade
Cherry Creek High School Centennial, CO
Not So Perfect Sine Waves: A Fourier Analysis Of An Audio Oscillator

Sponsor: United States Navy and United States Marine Corps
United States Navy and United States Marine Corps Award
certificate, graphing calculator, invitation to the Junior Science and Humanities Symposium
Kinsey Freeman 9th grade
Palmer High School Colorado Springs, CO
Factors Affecting Life Span

Sponsor: United States Navy and United States Marine Corps
United States Navy and United States Marine Corps Award
certificate, graphing calculator, invitation to the Junior Science and Humanities Symposium
Jaymee Jungie 11th grade
Cherry Creek High School Englewood, CO
Manipulation Of The Krebs's Cycle

Sponsor: United States Navy and United States Marine Corps
United States Navy and United States Marine Corps Award
certificate, graphing calculator, invitation to the Junior Science and Humanities Symposium
Craig Wright 10th grade
Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: United States Navy and United States Marine Corps
United States Navy and United States Marine Corps Award
certificate, graphing calculator, invitation to the Junior Science and Humanities Symposium
Adam Curry 12th grade
Palisade High School Palisade, CO
The Cosmic Early Warning

Organizational

Sponsor: Air and Waste Management Association, Rocky Mountain States Section
Air and Waste Management Association Award 2nd Place
certificate, \$50
Lyle Hoffschneider 7th grade
Pagosa Springs Junior High School Pagosa Springs, CO
"Black Gold" Particles: Comparing Particles Of Fuel Sources

Sponsor: Air and Waste Management Association, Rocky Mountain States Section
Air and Waste Management Association Award 1st Place
certificate, \$100
Michael Dango 7th grade
Challenger Middle School Colorado Springs, CO
The Effect Of Salinity On The Effectiveness Of Bioremediation On Oil Spills Utilizing Pseudomonas And Penicillin

Sponsor: Air and Waste Management Association, Rocky Mountain States Section
Air and Waste Management Association Award 2nd Place
certificate, \$50
Benjamin Howard 12th grade
Fairview High School Boulder, CO
An Evaluation Of The Effectiveness Of Reformulated Gasoline In Reducing Urban Benzene Concentrations

Sponsor: Air and Waste Management Association, Rocky Mountain States Section
Air and Waste Management Association Award 1st Place
certificate, \$100
Jessica Caver 11th grade
Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: American Association of University Women
Association of University Women Award
\$100
Meredith MacGregor 7th grade
Burbank Middle School Boulder, CO
Avalanche! A Search For Self-Organized Criticality

Sponsor: American Institute of Chemical Engineers, Rocky Mountain Section
American Institute of Chemical Engineers Award 2nd Place
\$75
Michael Dango 7th grade
Challenger Middle School Colorado Springs, CO
The Effect Of Salinity On The Effectiveness Of Bioremediation On Oil Spills Utilizing Pseudomonas And Penicillin

Sponsor: American Institute of Chemical Engineers, Rocky Mountain Section
American Institute of Chemical Engineers Award 1st Place
 \$100
 Jessica Caver 11th grade
 Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: American Meteorological Society, Denver/Boulder Chapter
American Meteorological Society Award
 certificate, \$50 gift certificate to Barnes and Nobel
 Melissa Kanack 7th grade
 St. John the Evangelist School Loveland, CO
Snow 'n' Ice 'n' Everything Not So Nice

Sponsor: American Meteorological Society, Denver/Boulder Chapter
American Meteorological Society Award
 certificate, \$50 gift certificate to Barnes and Nobel
 Benjamin Howard 12th grade
 Fairview High School Boulder, CO
An Evaluation Of The Effectiveness Of Reformulated Gasoline In Reducing Urban Benzene Concentrations

Sponsor: American Vacuum Society, Rocky Mountain Chapter
American Vacuum Society Award 2nd Place
 \$50, \$50 for winner's school
 Adam Sidman 8th grade
 North Middle School Colorado Springs, CO
Wind Turbine Design

Sponsor: American Vacuum Society, Rocky Mountain Chapter
American Vacuum Society Award 1st Place
 \$100, \$100 for winner's school
 Daniel Weidlein 6th grade
 Summit Middle School Boulder, CO
Into The Wind: Wind Powered Cars

Sponsor: American Vacuum Society, Rocky Mountain Chapter
American Vacuum Society Award 1st Place
 \$100, \$100 for winner's school
 Craig Wright 10th grade
 Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: American Vacuum Society, Rocky Mountain Chapter
American Vacuum Society Award 1st Place
 \$100, \$100 for winner's school
 Jessica Caver 11th grade
 Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: American Welding Society, Colorado Section
American Welding Society Award
 \$25, trophy
 Matthew Rotbart 8th grade
 Rocky Mountain Hebrew Academy Denver, CO
Modeling The Collapse Of The World Trade Center: The Effect Of Heat On The Tensile Strength Of Steel

Sponsor: American Welding Society, Colorado Section
American Welding Society Award
 \$25, trophy
 Dak Steiert 11th grade
 Battle Mountain High School Edwards, CO
Ramjet Propulsion For High Altitude Launch And Research

Sponsor: Analex Corporation
Analex Corporation Award
 certificate, \$100
 Lila Hickey 12th grade
 Brush High School Hillrose, CO
Ups & Downs: Simulated Elevator Control

Sponsor: ASM International, Rocky Mountain Chapter
ASM International Award 2nd Place
 \$50
 Matthew Rotbart 8th grade
 Rocky Mountain Hebrew Academy Denver, CO
Modeling The Collapse Of The World Trade Center: The Effect Of Heat On The Tensile Strength Of Steel

Sponsor: ASM International, Rocky Mountain Chapter
ASM International Award 1st Place
 \$75
 William Eucker 10th grade
 George Washington High School Denver, CO
Metallurgical Characteristics Of The Sacagawea Dollar

Sponsor: Association for Women Geoscientists, Denver Chapter
Association for Women Geoscientists Award
 \$50, rock sample
 Audrey Keenan 6th grade
 Holy Family Catholic School Grand Junction, CO
Go With The Flow - A Study Of Water Quality In The Upper Colorado River Basin

Sponsor: Association for Women Geoscientists, Denver Chapter
Association for Women Geoscientists Award
 \$50, rock sample
 Jessica Caver 11th grade
 Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: Colorado Association of Science Teachers
Colorado Association of Science Teachers Award
 \$50, certificate
 Maxwell Van Pelt 7th grade
 Rocky Mountain School Boulder, CO
An Investigation Of Automated Highways

Sponsor: Colorado Association of Science Teachers
Colorado Association of Science Teachers Award
 \$50, certificate
 Devin Adam 8th grade
 Crawford Elementary School Crawford, CO
A Hot Idea For A Cool Computer

Sponsor: Colorado Association of Science Teachers
Colorado Association of Science Teachers Award
 \$50, certificate
 Julie Ann Chelewski 9th grade
 Rifle High School Silt, CO
Turning The Red Planet Green

Sponsor: Colorado Association of Science Teachers
Colorado Association of Science Teachers Award
 \$50, certificate
 Robert Ussery 10th grade
 Ussery Home School Fort Collins, CO
Autonomous UAV Design

Sponsor: Colorado Dental Association & Arkansas Valley
Dental Society
Colorado Dental Association Award
\$25, plaque, Wal-Mart gift card
Andrea Buxton 8th grade
Eads Junior High School Lamar, CO
Fluoride: When Is Enough

Sponsor: Colorado Dental Association & Arkansas Valley
Dental Society
Colorado Dental Association Award
\$50 plaque, Wal-Mart gift card
Sara McFarland 11th grade
Hoehne High School Trinidad, CO
The Effect Of Triclosan On Antibiotic Resistance

Sponsor: Arkansas Valley Dental Society
Arkansas Valley Dental Association Award
watch, Wal-Mart gift card
Kayla Kinch 6th grade
Britney Bunker 6th grade
Ellicott Middle School Calhan, CO
Smile

Sponsor: Arkansas Valley Dental Society
Arkansas Valley Dental Association Award
watch, Wal-Mart gift card
Brittani Cliff 10th grade
Breanna Anderson 10th grade
Akron High School Akron, CO
Stress And Immunity: Qualification Of Immunoglobulin G And Leukocytes

Sponsor: Colorado Division of Wildlife
Colorado Division of Wildlife Award
packet of Colorado Wildlife products, free admission to a
Wildlife Watch Workshop
Trixie Lee 12th grade
Fleming High School Crook, CO
The Squeeze Is On: Overcoming Overpopulation

Sponsor: Colorado Foundation for Agriculture
Agriculture in the Classroom Award 2nd Place
certificate, \$50
Kelly Valdes 8th grade
St. Mary's School of Littleton Littleton, CO
Thieves Steal Bacteria

Sponsor: Colorado Foundation for Agriculture
Agriculture in the Classroom Award 1st Place
certificate, \$50
Travis Justin Garoutte 6th grade
Centauri Middle School Antonito, CO
Pupation Creation

Sponsor: Colorado Foundation for Agriculture
Agriculture in the Classroom Award 2nd Place
certificate, \$50
Jacqueline Consaul 11th grade
Del Norte High School Center, CO
A Study On The Interaction Between Blackleg And PVY On Potatoes

Sponsor: Colorado Foundation for Agriculture
Agriculture in the Classroom Award 1st Place
certificate, \$50
Stephen Canham 12th grade
Cherry Creek High School Greenwood Village, CO
Prevention Of Soil Salinization From A Rising Water Table

Sponsor: Colorado Geological Survey
The Best Junior Earth Science Award
\$75
Lena Martin 7th grade
Genoa-Hugo Middle School Genoa, CO
Time: Sun vs. Clock

Sponsor: Colorado Geological Survey
The Best Senior Earth Science Award
\$75
Adam Curry 12th grade
Palisade High School Palisade, CO
The Cosmic Early Warning

Sponsor: Colorado Medical Society Education Foundation
Colorado Medical Society Award
\$100, invitation to exhibit at the Annual meeting and attendance at
Presidential Inaugural Dinner
Kelly Dimmen 6th grade
Sabin Middle School Colorado Springs, CO
Stop In The Name Of The Law

Sponsor: Colorado Medical Society Education Foundation
Colorado Medical Society Award
\$100, invitation to exhibit at the Annual meeting and attendance at
Presidential Inaugural Dinner
Krista Schroeder 9th grade
Palmer High School Colorado Springs, CO
Feeling Smart

Sponsor: Colorado Mineral Society
Colorado Mineral Society Award 2nd Place
\$25, 2 mineral specimens, certificate, book
Audrey Keenan 6th grade
Holy Family Catholic School Grand Junction, CO
Go With The Flow - A Study Of Water Quality In The Upper Colorado River Basin

Sponsor: Colorado Mineral Society
Colorado Mineral Society Award 1st Place
\$25, 2 mineral specimens, certificate, book
Jeffrey Hrcncir 7th grade
East Middle School Grand Junction, CO
Dinosaur Tracks

Sponsor: Colorado Mineral Society
Colorado Mineral Society Award 2nd Place
\$25, 2 mineral specimens, certificate, book
Brandon Rosgen 11th grade
Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Colorado Mineral Society
Colorado Mineral Society Award 1st Place
\$25, 2 mineral specimens, certificate, book
Adam Curry 12th grade
Palisade High School Palisade, CO
The Cosmic Early Warning

Sponsor: Colorado Mycological Society
Colorado Mycological Society Award
\$25, book on fungi, certificate
Lauryn Etl 10th grade
Fleming High School Fleming, CO
Antioxidants: Youth At Your Fingertips

Sponsor: Colorado Science and Engineering Fair
Ralph Desch Memorial Technical Writing Award
 \$100, certificate
 Adam Curry 12th grade
 Palisade High School Palisade, CO
The Cosmic Early Warning

Sponsor: Colorado Science and Engineering Fair
Student Choice Award
 \$25, trophy
 Meredith MacGregor 7th grade
 Burbank Middle School Boulder, CO
Avalanche! A Search For Self-Organized Criticality

Sponsor: Colorado Science and Engineering Fair
Student Choice Award
 \$25, trophy
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Colorado Scientific Society
Colorado Scientific Society Award 2nd Place
 \$50
 Adreanne Brungardt 7th grade
 Brush Middle School Brush, CO
Shake It Up: A Study On Size Separation

Sponsor: Colorado Scientific Society
Colorado Scientific Society Award 1st Place
 \$75
 Meredith MacGregor 7th grade
 Burbank Middle School Boulder, CO
Avalanche! A Search For Self-Organized Criticality

Sponsor: Colorado Scientific Society
Colorado Scientific Society Award 2nd Place
 \$75
 Christine Knoblauch 12th grade
 Monte Vista High School Del Norte, CO
Where's It Coming From?

Sponsor: Colorado Scientific Society
Colorado Scientific Society Award 1st Place
 \$100
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Colorado Section of the American Chemical Society
American Chemical Society Award
 certificate, cash award
 Rosie Li 7th grade
 North Middle School Colorado Springs, CO
Salt Water Conductivity

Sponsor: Colorado Section of the American Chemical Society
American Chemical Society Award
 certificate, cash award
 William Eucker 10th grade
 George Washington High School Denver, CO
Metallurgical Characteristics Of The Sacagawea Dollar

Sponsor: Colorado Sustainability Project
Colorado Sustainability Project Award 2nd Place
 \$50, certificate, information on sustainability
 Melissa Kanack 7th grade
 St. John the Evangelist School Loveland, CO
Snow 'n' Ice 'n' Everything Not So Nice

Sponsor: Colorado Sustainability Project
Colorado Sustainability Project Award 1st Place
 \$100, certificate, information on sustainability
 Adam Sidman 8th grade
 North Middle School Colorado Springs, CO
Wind Turbine Design

Sponsor: Colorado Sustainability Project
Colorado Sustainability Project Award 2nd Place
 \$50, certificate, information on sustainability
 Craig Bryan 11th grade
 Sargent High School Monte Vista, CO
Vulcan Block II

Sponsor: Colorado Sustainability Project
Colorado Sustainability Project Award 1st Place
 \$100, certificate, information on sustainability
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Colorado Veterinary Medical Association
Colorado Veterinary Medical Association Award
 certificate, gold medallion, \$50
 Nicholas Edwards 7th grade
 Juniper Drive Middle School Colorado Springs, CO
The Five Senses Of Training A Dog

Sponsor: Colorado Veterinary Medical Association
Colorado Veterinary Medical Association Award
 certificate, gold medallion, \$50
 Kori Tagtmeyer 9th grade
 Hi-Plains High School Seibert, CO
Determining Failure Of Passive Transfer In Neonatal Bovine Based On Immunoglobulin G Levels

Sponsor: CSU, Department of Biochemistry and Molecular Biology
CSU Department of Biochemistry and Molecular Biology Award
 certificate, \$100
 Jeff Marlow 11th grade
 Cherry Creek High School Englewood, CO
Hydroxyl Radical Neutralization By Non-Steroid Anti-Inflammatory Drugs Related To Alzheimer's Prevention

Sponsor: CSU, Department of Chemistry
CSU Department of Chemistry Award
 certificate, cash award
 Tyler Hutchinson 6th grade
 Holy Family Catholic School Grand Junction, CO
Catalysts, The Chemical Matchmakers

Sponsor: CSU, Department of Chemistry
CSU Department of Chemistry Award
 certificate, cash award
 Benjamin Howard 12th grade
 Fairview High School Boulder, CO
An Evaluation Of The Effectiveness Of Reformulated Gasoline In Reducing Urban Benzene Concentrations

Sponsor: CSU, Dept of Horticulture & Landscape Architecture
CSU Dept. of Horticulture & Landscape Architecture Award
 \$100
 Emily Woods 6th grade
 Summit Middle School Boulder, CO
Secret Weapons: Allelochemicals In Plants

Sponsor: CSU, Dept. of Horticulture & Landscape Architecture
CSU Dept. of Horticulture & Landscape Architecture Award
 \$100
 Tyler Benton 9th grade
 Stratton High School Vona, CO
An Ecological Study Of The Efficacy Of The Conservation Reserve Program

Sponsor: Fort Collins Soil Conservation District
Fort Collins Soil Conservation District Award
 \$50, plaque
 Jeffrey West 7th grade
 Lamar Middle School Lamar, CO
Will Size Affect The Amount Of Soil Blown Away?

Sponsor: Fort Collins Soil Conservation District
Fort Collins Soil Conservation District Award
 \$50, plaque
 Tyler Stuart 9th grade
 Palmer High School Manitou Springs, CO
H2uh-O

Sponsor: Intel Corporation
Intel Corporation Award
 laptop computer
 Craig Wright 10th grade
 Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: Intel Corporation
Intel Corporation Award
 laptop computer
 Meredith MacGregor 7th grade
 Burbank Middle School Boulder, CO
Avalanche! A Search For Self-Organized Criticality

Sponsor: Kodak Colorado Division
Kodak Colorado Division Award
 APS camera
 Tyler Keck 8th grade
 Monte Vista Middle School Monte Vista, CO
To Corrode Or Not To Corrode: Preventing Microbiologically Influenced Corrosion (MIC) On Steel Using A Polyurethane Coating

Sponsor: Kodak Colorado Division
Kodak Colorado Division Award
 APS camera
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Lockheed Martin Astronautics
Lockheed Martin Astronautics Award
 Atlas II AS Rocket model
 Dak Steiert 11th grade
 Battle Mountain High School Edwards, CO
Ramjet Propulsion For High Altitude Launch And Research

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

Sponsor: National Renewable Energy Laboratory
National Renewable Energy Laboratory Award
 \$100
 Adam Sidman 8th grade
 North Middle School Colorado Springs, CO
Wind Turbine Design

Sponsor: Rocky Mountain Association of Geologists
Rocky Mountain Association of Geologists Award
 certificate, cash award (to be mailed to the winners)
 Danika Friedley 7th grade
 Whitney Howard 7th grade
 Bayfield Middle School Bayfield, CO
Erosion And The Formation Of Alluvial Fans

Sponsor: Rocky Mountain Association of Geologists
Rocky Mountain Association of Geologists Award
 certificate, cash award (to be mailed to the winners)
 Katherine Hermann 9th grade
 Boulder High School Louisville, CO
Predicting Water Quality With Landscape Metrics

Sponsor: Rocky Mountain Association of Geologists
Rocky Mountain Association of Geologists Award
 certificate, cash award (to be mailed to the winners)
 Stephen Canham 12th grade
 Cherry Creek High School Greenwood Village, CO
Prevention Of Soil Salinization From A Rising Water Table

Sponsor: Rocky Mountain Goats Foundation
Rocky Mountain Goats Foundation Award
 \$100
 Stacy Dominguez 6th grade
 Pagosa Springs Intermediate School Pagosa Springs, CO
Local Lake Quality = Happy pHish

Sponsor: Rocky Mountain Goats Foundation
Rocky Mountain Goats Foundation Award
 \$100
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Rocky Mountain Inventors and Entrepreneurs Congress
Best Junior Exhibit Award
 \$50
 Ross Brunkhardt 7th grade
 Merino Jr/Sr High School Sterling, CO
Take On A Shake - The Use Of Base Isolators To Prevent Earthquake Damage

Sponsor: Rocky Mountain Inventors and Entrepreneurs Congress
Best Classroom Presentation Potential
 \$50
 Meredith MacGregor 7th grade
 Burbank Middle School Boulder, CO
Avalanche! A Search For Self-Organized Criticality

Sponsor: Rocky Mountain Inventors and Entrepreneurs Congress
Excellent Senior Exhibit Award
 \$50
 Adam Curry 12th grade
 Palisade High School Palisade, CO
The Cosmic Early Warning

Sponsor: Rocky Mountain Inventors and Entrepreneurs Congress
Excellent Senior Exhibit Award
 \$50
 April Mertens 12th grade
 Merino Jr/Sr High School Merino, CO
A Promising Cancer Treatment: Tumor Suppression Using The Synergism Of NSAID And Aloe

Sponsor: Rocky Mountain Inventors and Entrepreneurs Congress
Outstanding Exhibit: Near-term Potential for Implementation
 \$50
 Robert Glissmann 8th grade
 Summit Middle School Boulder, CO
Never Blinking, Never Sleeping: Image Preparation Improves Machine Vision

Sponsor: Rocky Mountain Section of the American Water Works Association
American Water Works Association Award 3rd Place
 plaque, \$50
 Christine Knoblauch 12th grade
 Monte Vista High School Del Norte, CO
Where's It Coming From?

Sponsor: Rocky Mountain Section of the American Water Works Association
American Water Works Association Award 2nd Place
 plaque, \$75
 Jessica Caver 11th grade
 Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: Rocky Mountain Section of the American Water Works Association
American Water Works Association Award 1st Place
 plaque, \$100
 Chris Anderson 12th grade
 Merino Jr/Sr High School Merino, CO
Renewable Protection: The Solar And Hydrogen Approach To Pipeline Cathodics

Sponsor: Rocky Mountain Section of the Optical Society of America
Rocky Mountain Optical Society Award
 subscription to Discover magazine, certificate
 Kelly Cook 8th grade
 Boltz Junior High School Fort Collins, CO
Is What You See What You Get?

Sponsor: Rocky Mountain Section of the Optical Society of America
Rocky Mountain Optical Society Award
 subscription to Discover magazine, certificate
 Robert Glissmann 8th grade
 Summit Middle School Boulder, CO
Never Blinking, Never Sleeping: Image Preparation Improves Machine Vision

Sponsor: Rocky Mountain Water Environment Association
Rocky Mountain Water Environment Association Award
 savings bond (to be mailed to the winners)
 Anna Hermann 6th grade
 Summit Middle School Louisville, CO
Under The Stream: Using Aquatic Insects To Determine Water Quality

Sponsor: Rocky Mountain Water Environment Association
Rocky Mountain Water Environment Association Award
 savings bond (to be mailed to the winners)
 Jacquie Beckvermit 8th grade
 Turner Middle School Berthoud, CO
Do You Drink Undrinkable Water?

Sponsor: Rocky Mountain Water Environment Association
Rocky Mountain Water Environment Association Award
 savings bond (to be mailed to the winners)
 Katherine Hermann 9th grade
 Boulder High School Louisville, CO
Predicting Water Quality With Landscape Metrics

Sponsor: Rocky Mountain Water Environment Association
Rocky Mountain Water Environment Association Award
 savings bond (to be mailed to the winners)
 Christine Knoblauch 12th grade
 Monte Vista High School Del Norte, CO
Where's It Coming From?

Sponsor: Society of Manufacturing Engineers, Chapter 354, Electro-Mechanical
Society of Manufacturing Engineers Award
 certificate, \$200 savings bond
 Eddie Kreimier 9th grade
 Rifle High School Rifle, CO
If I Only Had A Heart (Valve)

Sponsor: Society of Women Engineers, Rocky Mountain Section
Society of Women Engineers Award 2nd Place
 certificate, \$50
 April Brooks 8th grade
 O'Connell Middle School Lakewood, CO
The Fastest Power

Sponsor: Society of Women Engineers, Rocky Mountain Section
Society of Women Engineers Award 1st Place
 certificate, \$75
 Molly May 6th grade
 St. Columba School Durango, CO
A Comparison Of Tensile Strength Of Various Materials

Sponsor: Society of Women Engineers, Rocky Mountain Section
Society of Women Engineers Award 2nd Place
 certificate, \$50
 Amanda Parker 9th grade
 Cherry Creek High School Centennial, CO
Not So Perfect Sine Waves: A Fourier Analysis Of An Audio Oscillator

Sponsor: Society of Women Engineers, Rocky Mountain Section
Society of Women Engineers Award 1st Place
 certificate, \$75
 Lindy Doddridge 12th grade
 Liberty High School Kirk, CO
From Prickly To Paper Part II

Sponsor: Soil and Water Conservation Society, Colorado Chapter
Soil and Water Conservation Society Award 2nd Place
 \$25, certificate, ribbon
 Caitlin Hladky 6th grade
 Fort Lupton Middle School Fort Lupton, CO
Does pH Affect Seed Germination And Growth Rate?

Sponsor: Soil and Water Conservation Society, Colorado Chapter
Soil and Water Conservation Society Award 1st Place
 \$50, certificate, ribbon
 Anna Hermann 6th grade
 Summit Middle School Louisville, CO
Under The Stream: Using Aquatic Insects To Determine Water Quality

Sponsor: Soil and Water Conservation Society, Colorado Chapter
Soil and Water Conservation Society Award 2nd Place
 \$25, certificate, ribbon
 Katherine Hermann 9th grade
 Boulder High School Louisville, CO
Predicting Water Quality With Landscape Metrics

Sponsor: Soil and Water Conservation Society, Colorado Chapter
Soil and Water Conservation Society Award 1st Place
 \$50, certificate, ribbon
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Tracy Teyler Memorial
Poster Art Contest
 \$100, certificate
 Lauren Goulding 9th grade
 Palmer High School Colorado Springs, CO
Chemical Memory: Can Physarum Polycephalum Reproduce A Pattern?

Sponsor: UC, Health Sciences Center Medical Scientist
 Training Program
UC Health and Sciences Center Award
 \$100
 Jaymee Jungie 11th grade
 Cherry Creek High School Englewood, CO
Manipulation Of The Krebs's Cycle

Sponsor: United States Department of Commerce
United States Department of Commerce Award
 opportunity for summer employment
 Eric Doner 12th grade
 Walsh High School Walsh, CO
Operation: Voice Control

Sponsor: United States Department of Commerce
United States Department of Commerce Award
 alternate
 Chris Anderson 12th grade
 Merino Jr/Sr High School Merino, CO
Renewable Protection: The Solar And Hydrogen Approach To Pipeline Cathodics

Sponsor: United States Geological Survey
United States Geological Survey Award
 Jeffrey Hrcir 7th grade
 East Middle School Grand Junction, CO
Dinosaur Tracks

Sponsor: United States Geological Survey
United States Geological Survey Award
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Zonta Club of Boulder County
Amelia Earhart Award
 \$100
 Annie Sandner 8th grade
 St. Columba School Durango, CO
Aerodynamics Of Modern Rocketry

Scholarships

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Jacqueline Consaul 11th grade
 Del Norte High School Center, CO
A Study On The Interaction Between Blackleg And PVY On Potatoes

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Leyton Laybourn 10th grade
 Arickaree Undivided High School Cope, CO
The Best Superinsulator

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Christine Knoblauch 12th grade
 Monte Vista High School Del Norte, CO
Where's It Coming From?

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 April Mertens 12th grade
 Merino Jr/Sr High School Merino, CO
A Promising Cancer Treatment: Tumor Suppression Using The Synergism Of NSAID And Aloe

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Colin Oldberg 9th grade
 Coronado High School Colorado Springs, CO
Light-Operated Logic

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Sara McFarland 11th grade
 Hoehne High School Trinidad, CO
The Effect Of Triclosan On Antibiotic Resistance

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Megan Quick 12th grade
 Palmer High School Colorado Springs, CO
A Comparison Of The Efficiencies Of Tracking Photovoltaic Cells vs. Mounted Photovoltaic Cells

Sponsor: Adams State College Foundation
Adams State College Scholarship
 one year full resident tuition & fees scholarship
 Matthew Simes 12th grade
 Centaurus High School Lafayette, CO
Relative Abundance Of Ponderosa Pine Bird Species Along An Elevational Gradient

Sponsor: Colorado School of Mines
Colorado School of Mines Scholarship
 four-year full resident tuition
 Adam Curry 12th grade
 Palisade High School Palisade, CO
The Cosmic Early Warning

Sponsor: Colorado School of Mines
Colorado School of Mines Scholarship
 four-year full resident tuition
 Chris Anderson 12th grade
 Merino Jr/Sr High School Merino, CO
Renewable Protection: The Solar And Hydrogen Approach To Pipeline Cathodics

Sponsor: Colorado School of Mines
Colorado School of Mines Scholarship
four-year full resident tuition
Lila Hickey 12th grade
Brush High School Hillrose, CO
Ups & Downs: Simulated Elevator Control

Sponsor: Colorado School of Mines
Colorado School of Mines Scholarship
four-year full resident tuition
Benjamin Howard 12th grade
Fairview High School Boulder, CO
*An Evaluation Of The Effectiveness Of Reformulated Gasoline
In Reducing Urban Benzene Concentrations*

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

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Brandon Rosgen 11th grade
Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Craig Wright 10th grade
Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Jessica Caver 11th grade
Woodlin Undivided High School Deer Trail, CO
*Evaluating Designer Solids For Remediation Of Heavy
Elements In Aqueous Waste Streams*

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
April Mertens 12th grade
Merino Jr/Sr High School Merino, CO
*A Promising Cancer Treatment: Tumor Suppression Using The
Synergism Of NSAID And Aloe*

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Colin Oldberg 9th grade
Coronado High School Colorado Springs, CO
Light-Operated Logic

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Josh Haimes 12th grade
Boulder High School Boulder, CO
*WGA Amplification And Thin Film Detection Of Methicillin
Resistant/Sensitive Staphylococcus aureus*

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Amber Henry 10th grade
Hi-Plains High School Joes, CO
*An Algorithm Demonstrating Impact Splatter Pattern Due To Angle
Of Incidence Using A Dichotomous Key*

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Holly McGuire 11th grade
Woodlin Undivided High School Lindon, CO
Comparing Extracted And Amplified Mitochondrial DNA

Sponsor: Colorado State University
Colorado State University Scholarship
non-renewable \$1,000 scholarship
Craig Wright 10th grade
Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: Colorado State University
Colorado State University All Fair Scholarship
non-renewable \$1,000 scholarship
Josh Haimes 12th grade
Boulder High School Boulder, CO
*WGA Amplification And Thin Film Detection Of Methicillin
Resistant/Sensitive Staphylococcus aureus*

Sponsor: Colorado State University
Colorado State University All Fair Scholarship
non-renewable \$1,000 scholarship
Aaron Burgess 11th grade
Kristen Rasmussen 11th grade
Fairview High School Boulder, CO
Aircraft Icing: Why Does It Happen?

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

Science Service

Sponsor: Conservation International
Award in Biodiversity Conservation Science 2002
certificate, Biodiversity Hotspots map (mailed later)
Matthew Simes 12th grade
Centaurus High School Lafayette, CO
*Relative Abundance Of Ponderosa Pine Bird Species Along An
Elevational Gradient*

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Harold Klausner 8th grade
Woodlin High School Woodrow, CO
Available Nitrogen vs. Legume Nodulation

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Annie Sandner 8th grade
St. Columba School Durango, CO
Aerodynamics Of Modern Rocketry

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Adam Sidman 8th grade
 North Middle School Colorado Springs, CO
Wind Turbine Design

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Meaghan Kormondy 8th grade
 St. Mary's School of Littleton Highlands Ranch, CO
Paper Or Plastic?

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Jeff Loewe 8th grade
 Evangelical Christian Academy Colorado Springs, CO
Pick Up The Beat

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Nathan McNew 8th grade
 Jefferson Academy Junior High School Arvada, CO
Investigation Of Prime Numbers

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Meredith MacGregor 7th grade
 Burbank Middle School Boulder, CO
Avalanche! A Search For Self-Organized Criticality

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Marty Sandberg 8th grade
 St. Mary's School of Littleton Littleton, CO
Rat Race

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Alex West 8th grade
 Andrew West 6th grade
 West Jefferson Middle School Conifer, CO
I'm Exhausted

Sponsor: Discovery Communications, Inc.
Discovery Young Scientist Challenge
 certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition
 Kelly Valdes 8th grade
 St. Mary's School of Littleton Littleton, CO
Thieves Steal Bacteria

Sponsor: Eastman Kodak Company
Eastman Kodak Company Award
 certificate, Kodak camera and film (mailed later)
 Jacqueline Consaul 11th grade
 Del Norte High School
A Study On The Interaction Between Blackleg And PVY On Potatoes

Sponsor: Herbert Hoover Presidential Library Association
The Herbert Hoover Young Engineer Award
 medallion, certificate
 Craig Wright 10th grade
 Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: Intel Corporation
Intel Excellence in Computer Science Award
 certificate, \$200 (mailed later)
 Colin Oldberg 9th grade
 Coronado High School Colorado Springs, CO
Light-Operated Logic

Sponsor: Intel Corporation
Intel Excellence in Environmental Health and Safety Award
 certificate, \$200 (mailed later)
 Jessica Caver 11th grade
 Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: NACE International
NACE International Award
 certificate
 Tyler Keck 8th grade
 Monte Vista Middle School Monte Vista, CO
To Corrode Or Not To Corrode: Preventing Microbiologically Influenced Corrosion (MIC) On Steel Using A Polyurethane Coating

Sponsor: Scientific American
Scientific American Award 1st Place
 certificate, subscription to Scientific American
 Nicole Thomas 10th grade
 Sierra Grande High School Blanca, CO
WNC 230-14RU Resistant Or Immune To Potato Leaf Roll Virus

Sponsor: Scientific American
Scientific American Award 1st Place
 certificate, subscription to Scientific American
 Brandon Rosgen 11th grade
 Pagosa Springs High School Pagosa Springs, CO
River Banks - Nature's Erodible Boundaries

Sponsor: Scientific American
Scientific American Award 1st Place
 certificate, subscription to Scientific American
 Craig Wright 10th grade
 Woodlin Undivided High School Akron, CO
Designing A Linear Peristaltic Pump Using Ferrofluids

Sponsor: Scientific American
Scientific American Award 1st Place
 certificate, subscription to Scientific American
 Jessica Caver 11th grade
 Woodlin Undivided High School Deer Trail, CO
Evaluating Designer Solids For Remediation Of Heavy Elements In Aqueous Waste Streams

Sponsor: Scientific American
Scientific American Award 1st Place
 certificate, subscription to Scientific American
 April Mertens 12th grade
 Merino Jr/Sr High School Merino, CO
A Promising Cancer Treatment: Tumor Suppression Using The Synergism Of NSAID And Aloe

Sponsor: Scientific American
Scientific American Award 1st Place
certificate, subscription to Scientific American
Colin Oldberg 9th grade
Coronado High School Colorado Springs, CO
Light-Operated Logic

Sponsor: Scientific American
Scientific American Award 1st Place
certificate, subscription to Scientific American
Amber Henry 10th grade
Hi-Plains High School Joes, CO
*An Algorithm Demonstrating Impact Splatter Pattern Due To
Angle Of Incidence Using A Dichotomous Key*

Sponsor: Scientific American
Scientific American Award 1st Place
certificate, subscription to Scientific American
Holly McGuire 11th grade
Woodlin Undivided High School Lindon, CO
Comparing Extracted And Amplified Mitochondrial DNA

Sponsor: Scientific American
Scientific American Award 1st Place
certificate, subscription to Scientific American
Aaron Burgess 11th grade
Kristen Rasmussen 11th grade
Fairview High School Boulder, CO
Aircraft Icing: Why Does It Happen?

Sponsor: Scientific American
Scientific American Award 1st Place
certificate, subscription to Scientific American
Josh Haimes 12th grade
Boulder High School Boulder, CO
*WGA Amplification And Thin Film Detection Of Methicillin
Resistant/Sensitive Staphylococcus aureus*

Sponsor: Society for In Vitro Biology
Society for In Vitro Biology Award
certificate
Levi Klausner 11th grade
Woodlin High School Woodrow, CO
Selecting For Salt Tolerance In 5 Varieties Of Wheat

Sponsor: United States Metric Association
United States Metric Association Award
certificate
Alex Lande 7th grade
Ignacio Junior High School Ignacio, CO
The Truth Behind Jurassic Park

Sponsor: United States Metric Association
United States Metric Association Award
certificate
Adam Brungardt 11th grade
Brush High School Brush, CO
Spinning Samaras: A Study Into Seed Distribution

Sponsor: United States Public Health Service
*US Department of Health and Human Services/US Public
Health Service Award*
certificate
T. J. Van Bibber 7th grade
Sargent Junior High School Monte Vista, CO
You Are What You Eat

Sponsor: Water Environment Federation
Stockholm Junior Water Prize
certificate
Katherine Hermann 9th grade
Boulder High School Louisville, CO
Predicting Water Quality With Landscape Metrics

Sponsor: Yale University Science and Engineering Association
*Yale University Science and Engineering Association
Award*
certificate, pewter medallion (mailed to the winner)
Leota McDaniel 11th grade
Brush High School Brush, CO
An Investigation Into The Weissenberg Phenomenon