

Colorado State Science Fair, Inc.

2007 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.

August 31, 2007
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2007 ANNUAL REPORT

The Colorado State Science Fair, Inc. was established in 1977 as a private, non-profit organization to run the Colorado Science and Engineering Fair (CSEF). The CSEF has actually been held annually since 1955 and is the state-level event in a year-long process of local and regional science fairs. More than two thousand students participate in science fair programs state-wide. The purpose of the CSEF is to stimulate student interest and encourage students in science and engineering through recognition of their research knowledge, ability and achievement.

Each year, a number of experiences are made available to the student finalists who participate in the CSEF. Tours of university and local corporate research facilities provide opportunities for students and their families to see research in action. Additionally, the judges' interviews allow the finalists a chance to interact with professional scientists and engineers. Over the years, 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.

In addition to getting the opportunity to interact with working scientists, CSEF finalists compete for awards in the categories of Animal Sciences, Behavioral & Social Sciences; Chemistry; Earth and Space Sciences; Energy & Transportation, Engineering; Environmental Sciences; Mathematics and Computer Sciences; Medicine & Health; Microbiology; Physics; and Plant Sciences – either as an individual or as a team project. Recognition for outstanding research in each of these categories as well as an award for technical writing are presented each year at the CSEF Awards Ceremony. The top two Senior Division individual projects and the top Senior Division team project are awarded trips to compete at the Intel International Science and Engineering Fair (Intel ISEF).

2007 COLORADO SCIENCE AND ENGINEERING FAIR

The fifty-second Colorado Science and Engineering Fair was held at Lory Student Center on the Colorado State University campus on April 5 - 7, 2007.

This year, CSEF winners were chosen from among 281 projects represented by 302 finalists from 114 schools and 13 regions within the state. More than 100 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 150 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 scientific equipment. Over 700 people attended the Awards Ceremony this year.

The 2007 Colorado Science and Engineering Fair had 24 sponsors. Sponsors included 10 Platinum Sponsors (providing over \$2,500 of support each), 3 Gold Sponsors (\$1,000 – \$2,500 of support each), 1 Silver Sponsor (\$750 - \$1,000 of support each) and 11 Regular Sponsors (\$500 - \$750 of support each). In addition, there were 16 Financial Contributors (less than \$500 each). Also, several individuals donated through the Denver Combined Federal Campaign.

Scholarships from Adams State College, Colorado School of Mines, Syracuse Pulp and Paper Foundation and University of Colorado - Boulder were also presented. Adams State College awarded twelve one-year full scholarships for resident tuition and fees.

The Colorado School of Mines awarded six four-year half resident tuition scholarships.

The University of Colorado at Boulder awarded four partial scholarships. The Syracuse Pulp and Paper Foundation awarded one \$17,000 scholarship to State University of New York. The Intel Foundation also awarded a \$2,000 scholarship to a twelfth grader in the name of Ryan Patterson (Intel ISEF top winner in 2001) for use at the college or university of his/her choice.

This year, the CSEF was honored to have guest speaker Dr. Stephen Thompson, Professor of Chemistry, Director of the Center for Science, Mathematics & Technology Education, University Distinguished Teaching Scholar and professional fire eater. Dr. Thompson's talk was entitled "Fire in the Mind."

The origin of fire is lost in antiquity and yet all ancient communities possess myths about how fire was given and kept. Since the beginning of time, fire has been a powerful element in the lives of people. Fire transforms, consumes, cooks, warms, protects, and induces meditation and revenue. Over 50,000 years ago, indigenous people have used controlled fire to recycle nutrients and to enhance hunting. The fire stick is still a central part of aboriginal culture in Australia, which may be described as a continent shaped by fire. For the Greeks, fire was a fundamental element and part of all material contribution. Through the 17th and 19th centuries, fire was one of the great problems in science, as well as an element in poetry and magic. Lavoisier and Priestly developed the modern interpretation of fire with the discovery of dioxygen and carbon dioxide. We now know that hydrocarbon combustion systems are dynamic chain reaction systems that possess strange chaotic properties and interesting macroscopic-structures. Dr. Stephen Thompson has studied the scientific culture, magical and spiritual nature of fire for over 50 years and gave a demonstration of the ultimate human interaction with fire.

(See Appendix 1 – 2007 CSEF Schedule)

2007 COLORADO SCIENCE AND ENGINEERING FAIR TOP AWARDS

The top Senior Division individual project exhibitor of the 52nd Colorado Science and Engineering Fair and winner of an all-expense paid trip to compete in the Intel International Science and Engineering Fair (Intel ISEF) was **Chelsea Oden**, Monte Vista High School, Monte Vista, grade 11, for the project *A Wrinkle In Prime: An Investigation Of Prime Properties In A Four-Dimensional Sieve Of Eratosthenes*. Second place for best individual project, and also a winner of an all-expense paid trip to compete at the Intel ISEF was **Atticus Bergman**, Fairview High School, Boulder, grade 11, for the project *That Flocking Convection*. Awarded third place for best individual project was **Daniel Smith**, Herzel Rocky Mountain Hebrew Academy, Denver, grade 11, for the project *Reading Fingers: A System For Automatic Guitar Composition*. The first place Senior Division team project and winners of an all-expense paid trip to compete in the Intel ISEF were **Bailey Leppek** and **Derek Kramer**, Cherry Creek High School, Greenwood Village, grade 11, for the project *Ethanol Synthesis From Different Biodegradable Household Waste Products*.

The winner of the Ralph F. Desch Memorial Technical Writing Award was **John Huffman** from Eagle Valley High School, Gypsum, grade 12, for the project *Response Of Euglena gracilis To Magnesium Chloride Exposure*.

The winner of the Senior Division Student Choice Award was **Leslie Hase**, Merino Jr/Sr High School, Merino grade 12, for the project *A Combat Against Cavity Causing Bacteria: Raisins As A Functional Food For Oral Health*. The Junior Division Student Choice winner was **Abbi Helfer**, North Middle School, Colorado Springs, grade 7, for the project *Pan-Demonium*.

The winner of the Poster Art Contest was **Marlee Canada**, home schooled, Mosca.

The winner of the Lockheed Martin CSEF Teacher of the Year Award was **Haydee Phelps** of Summit Middle School, Boulder. Ms. Phelps received a \$3,000 grant to use towards scientific research in her classroom and school.

Knowing that science throughout history has progressed in a series of fits and starts, and knowing that the pioneers of science probably did not show genius if their first scientific endeavors, the Board of Directors of the Colorado Science and Engineering Fair has created this series of Pioneers of Science Awards to encourage our youngest scientists to endeavor to achieve greatness:

Avery DiUbaldo, Cherry Creek Challenge School, Denver, grade 8; **Majed Aldhamari**, Blevins Junior High School, Fort Collins, grade 8; **Cody Hervert**, Eagle County Charter Academy, Edwards, grade 8; **Katie Romano**, Harrison Middle School, Canon City, grade 6; **Jorge Arrendondo**, Cheyenne Wells Middle School, Cheyenne Wells, grade 8; **Dylan Cleveland**, Canon City Middle School, Canon City, grade 6; **Taylor Bond**, St. Peter's Lutheran School, Monte Vista, grade 6; **Isaiah Branch-Boyle**, St. Columba School, Durango, grade 8; **Jana Elrick**, Arriba-Flagler School, Flagler, grade 7; **Noah Jordan**, Windsor Charter Academy, Windsor, grade 6; **Alyssa Loveland**, Lamar Middle School, Lamar, grade 7; **Joshua Shettler**, Holy Family Catholic School, Grand Junction, grade 8; **Laci Pennington**, Lamar Middle School, Lamar, grade 7; **Kally Williams**, Cortez Middle School, Cortez, grade 6; **Brenna Christensen**, Miller Middle School, Durango, grade 6; **Phillip Foy**, Otis Jr/Sr High School, Otis, grade 8; **Sami Hourieh**, Parkview Elementary School, Lamar, grade 6; and **Alexa Major**, Fowler Junior High School, Fowler, grade 7.



2007 COLORADO SCIENCE AND ENGINEERING FAIR

SCHOLARSHIP AWARDS

ADAMS STATE COLLEGE

Kaitlin Hornig, Sargent Jr/Sr High School, Monte Vista, grade 10, for the project *The Equine Emotional And Physical Behavior Connection*.

Dustin Brady, Wray High School, Wray, grade 11, for the project *Beats Of The Brain*.

Sarah Cummings, Brush High School, Brush, grade 10, for the project *Leaching Of Metals From Cookware By Acidic Solutions*.

Bailey Jones, Canon City High School, Canon City, grade 12, for the project *Which Rock, What Time, Which Fossils Can You Find?*

Seth Brouwer, Arriba-Flagler School, Flagler, grade 10, for the project, *What's The Coolest Oil*.

Keith Vieweg, Monte Vista On-Line Academy, Monte Vista, grade 12, for the project *Cooling Results: The Effect Of Temperature On The Warp Of Plastic In Manufacturing*.

Alex Schnaderbeck, Sargent Jr/Sr High School, Monte Vista, grade 11, for the project *Shape Up: The Relationship Between Trout Habitat And Differently Shaped Rocks*.

Adam Goss, Brush High School, Brush, grade 11, for the project *Computer Simulation Of Erosion Patterns*.

Jennifer Manfredo, Canon City High School, Canon City, grade 9, for the project *Auditory Processing: Can You Interpret It Now?*

Sarah Gunkel, Springfield Jr/Sr High School, Springfield, grade 10, for the project *Bacterial Party*.

Tucker Dunivan, Walsh Jr/Sr High School, Walsh, grade 11, for the project *Stress Test, Will Stress Cause Whiskers?*

Hadyn Christensen, Monte Vista High School, Monte Vista, grade 10, for the project *The Effects Of Disease And Damage On Malt Friability*.



COLORADO SCHOOL OF MINES

Austin Nichols, Brush High School, Brush, grade 11, for the project *The Controlled Growth Of Penitente Structures*.

Alex Schnaderbeck, Sargent Jr/Sr High School, Monte Vista, grade 11, for the project *Shape Up: The Relationship Between Trout Habitat And Differently Shaped Rocks*.

Daniel Smith, Herzl Rocky Mountain Hebrew Academy, Denver, grade 11, for the project *Reading Fingers: A System For Automatic Guitar Composition*.

Chelsea Oden, Monte Vista High School, Monte Vista, grade 11, for the project *A Wrinkle In Prime: An Investigation Of Prime Properties In A Four-Dimensional Sieve Of Eratosthenes*.

Atticus Bergman, Fairview High School, Boulder, grade 11, for the project *That Flocking Convection*.

Andrew Flynn and **Wil Cocks**, Palmer High School, Colorado Springs, grade 11, for the project *Determining The Point Of Entropy: Building A Lorenzian Waterwheel*.

SYRACUSE PULP AND PAPER FOUNDATION

State University of New York Scholarship

Keith Vieweg, Monte Vista On-Line Academy, Monte Vista, grade 12, for the project *Cooling Results: The Effect Of Temperature On The Warp Of Plastic In Manufacturing*.

UNIVERSITY OF COLORADO

Chelsea Oden, Monte Vista High School, Monte Vista, grade 11, for the project *A Wrinkle In Prime: An Investigation Of Prime Properties In A Four-Dimensional Sieve Of Eratosthenes*.

Maxwell Wheeler, Nederland Jr/Sr High School, grade 12, for the project *A New Frequency For Help! Exploring Propagation Characteristics Of The 500kHz Frequency*.

Bailey Leppke and **Derek Kramer**, Cherry Creek High School, Greenwood Village, grade 11, for the project *Ethanol Synthesis From Different Biodegradable Household Waste Products*.

RYAN PATTERSON SCHOLARSHIP

The Ryan Patterson Scholarship is in honor of the Intel ISEF top winner of 2001. The Intel Foundation in Colorado Springs funds this scholarship and the winner can use it at the school of his/her choice. The 2007 winner was **Amanda Rock**, Wray High School, Wray, grade 12, for the project *Biofuels: Oily Alternatives?*

(See Appendix 2 – CSEF Press Release)

2007 INTEL INTERNATIONAL SCIENCE AND ENGINEERING FAIR

The Intel International Science and Engineering Fair, the world's largest pre-college science fair, brings together more than 1,500 of the most curious and capable young science pioneers from more than 40 countries to share ideas, showcase cutting-edge science and compete for over \$3 million in awards and scholarships. The Intel ISEF is the world's only international science fair representing all sciences for students in grades 9 through 12. The Intel ISEF has been coordinated for 58 years by Science Service, Inc., one of the most respected non-profit organizations advancing the cause of science.

Colorado students from around the state were among the award winners at the 58th Intel ISEF held in Albuquerque, NM May 13 – 18, 2007.

GRAND AWARDS

DJ Horton from Crawford, CO won \$1,500 (2nd Place) in Animal Sciences.

Kaitlyn Lingus from Trinchera, CO won \$1,000 (3rd Place) in Plant Sciences.

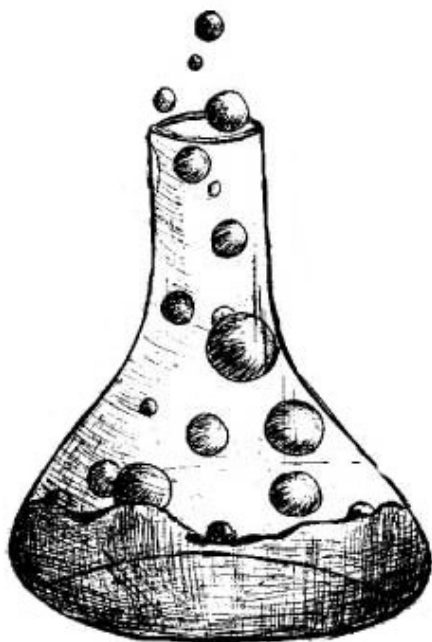
Eric Keeling from La Veta, CO won \$1,000 (3rd Place) in Environmental Sciences.

Cameron Kruse from Colorado Springs, CO won \$1,000 (3rd Place) in Engineering.

Atticus Bergman from Boulder, CO won \$500 (4th Place) in Physics.

Matt Wenger from Colorado Springs, CO won \$500 (4th Place) in Physics.

Kaitlin Hornig from Monte Vista, CO won \$500 (4th Place) in Animal Sciences.



SPECIAL AWARDS

Cameron Kruse won a 6 – 8 week paid internship from Agilent Technologies. Cameron also won \$150 (2nd Place) from the Patent and Trademark Office Society.

Atticus Bergman won \$800 (2nd Place), a one-year AAPT and APS student membership, a certificate from both AAPT and APS, as well as subscriptions to AAPT "The Physics Teacher" Journal and other APS journals from the American Association of Physics Teachers and the American Physical Society.

Anika Petach from Boulder, CO won \$700 (2nd Place), a t-shirt and a one-year membership in the APS from the American Phytopathological Society.

Gabriel Sachter-Smith from Nederland, CO won \$250 (3rd Place), one-year subscription to ASHS's "HortScience" and "Hort Technology" and a framed certificate from the American Society for Horticulture Science.

Alex Schnaderbeck from Monte Vista, CO won \$700 (2nd Place) and a plaque from the American Veterinary Medical Association.

DJ Horton won a scholarship in the amount of \$25,000 that can be used at a university of his choosing from Ricoh.

GOVERNMENT AWARDS

Alex Schnaderbeck won an \$8,000 scholarship from the Office of Naval Research on behalf of the US Navy and Marine Corps.

DJ Horton won \$1,500 (2nd Place) from the United States Air Force.

Chelsea Oden from Monte Vista, CO won \$1,500 (2nd Place) from the United States Air Force and \$1,000 US savings bond from the United States Army.

Kaitlin Hornig won three \$1,000 US savings bonds, \$300 cash, a gold medallion, a certificate and an all expense paid trip to Operation Cherry Blossom in Tokyo, Japan from the United States Army.

Kaitlyn Lingus won three \$1,000 US savings bonds and is the alternate to attend Operation Cherry Blossom in Tokyo, Japan from the United States Army.

ORGANIZATION

The success of the yearly 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 the efforts of hundreds of committed volunteers. It is no exaggeration to say that CSEF volunteers indeed make the event possible. At the state level, there is the Board of Directors (which is comprised of volunteers from the sponsoring organizations and oversees the operation of the CSEF and the non-profit organization); the Advisory Council (volunteers from around the state who are on the CSEF Working Committees to make sure everything operates smoothly at the event); judges (both for Grand and Special Awards who interview the finalists and choose the winners); and hundreds of on-site volunteers who do the actual work of the CSEF. Prior to the state event, thirteen regional science fairs and a large number of local school science fairs are conducted throughout the state, and each of these is supported and promoted by hardworking and dedicated educators. And before a student's project even makes it to a local science fair, it requires the encouragement and support from individual teachers, adult 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.

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 interests in science and technology; promoting professional skills, high ethical standards, diversity and continuing intellectual development.

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, 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 that serve 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;
- Increasing public awareness and appreciation of science, engineering and technology in the schools.

CSEF SPONSORS

PLATINUM SPONSORS

(Providing over \$2,500 in support of CSEF)

Agilent Technologies

Colorado Dental Association

Colorado State University

Office of the Provost/Senior Vice President

College of Natural Sciences

CSMATE

Intel Foundation

Lockheed Martin

LSI Logic

Qwest

Seagate Technology

US Department of Commerce/NTIA/ITS

Xcel Energy Foundation

GOLD SPONSORS

(Providing \$1,000 - \$2,500 in support of CSEF)

Ball Corporation

Colorado Medical Society

Education Foundation

SILVER SPONSORS

(Providing \$750 - \$1,000 in support of CSEF)

US Department of Commerce/NIST

Colorado State University

College of Engineering



REGULAR SPONSORS

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

Anheuser-Busch, Inc.

Canberra Industries

Colorado Engineering Council

ICAT Managers

IEEE/LEOS

Robert Lamperuer

National Renewable Energy Laboratory

John Edward Parker Trust

San Luis Valley Regional Science Fair, Inc.

US Department of Commerce/NOAA

CONTRIBUTORS

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

Ed and Lucy Adams

Ag Services

Albertson's Community Partner's Program

Sam and Eileen Bartlett

Eric & Lisa Burt

Gina Holland

King Soopers

Marjorie McLellan

Dr. Robert Morrow

Pro Sports

Sundyne Corporation

URS Corporation

Villa Pizza & Butler Pizza Company

Wal-Mart

Many federal employees also contributed through the Combined Federal Campaign

CSEF ADVISORY COUNCIL

The CSEF Advisory Council is comprised of the Board of Directors, the Regional Fair Directors and Assistant Directors, and many at-large members.

CSSF BOARD OF DIRECTORS

Canberra Industries

Mike Bemski – President
Regular Member since 2002

Denver Chapter of the IEEE/LEOS Society

Keith Kasunic – Vice President
Regular Member since 2006

Colorado Dental Association

Carol Morrow - Secretary
Regular Member since 2002

Colorado Engineering Council

Sam Bartlett – Treasurer
Regular Member since 2001

Agilent Technologies

Dave Barton
Regular Member since 2005

US Department of Commerce/NOAA

Al Bedard
Regular Member since 1996

University of Colorado

John Bennett
Regular Member since 2005

Morgan Washington Bi-County RSF

Elemer Bernath
Associate Member since 2002

Colorado Engineering Council

Gina Holland
Regular Member since 1991

San Luis Valley Regional Science Fair, Inc.

David Holm
Regular Member since 1997

Colorado Medical Society

Dean Holzkamp
Regular Member since 2003

National Renewable Energy Laboratory

Doug Hooker
Regular Member since 2007

US Department of Commerce/NIST

Stephanie Hooker
Regular Member since 2004

Colorado Medical Society

A. Bill Kieger
Regular Member since 2002

US Department of Commerce/NOAA

Dan Kowal
Regular Member since 2007

National Renewable Energy Laboratory

Linda Lung
Regular Member since 2006

Lockheed Martin Space Systems Company

Bill Meersman
Regular Member since 2007

Colorado Dental Association

Bob Morrow
Regular Member since 1995

Colorado State University

Jan Nerger
Regular Member since 2003

John Edward Parker Trust

Amanda Parker
Regular Member since 2007

John Edward Parker Trust

John Parker
Regular Member since 2002

University of Colorado

Ryan Patterson
Regular Member since 2004

ICAT Managers

Brian Scriber
Regular Member since 2005

San Luis Valley Regional Science Fair, Inc.

Larry Sveum
Regular Member since 2007

Colorado State University

Stephen Thompson
Regular Member since 2005

US Department of Commerce/NTIA

Amy Weich
Regular Member since 2000

Canberra Industries

Paul Wojtaszek
Regular Member since 2006

REGIONAL FAIR DIRECTORS

Arkansas Valley Regional Science Fair
Aaron Reyes and Joel Gray

Boulder Valley Regional Science Fair
Jennifer Barr

Denver Metro Regional Science Fair
Jim Stevens and Kristina Wenzel

East Central Regional Science Fair
William Mallory and Marguerite Yowell

Longs Peak Regional Science Fair
Sue Kamal

Morgan/Washington Regional Science Fair
Elemer Bernath and David Miner

Northeast Regional Science Fair
Kari Kilmer and Penny Propst

Pikes Peak Regional Science Fair
Georgia Matteson

San Juan Basin Regional Science Fair
Sheila Weahkee

San Luis Valley Regional Science Fair
Lucy Adams

Southeast Regional Science Fair
Terri Lira and Robin Staker

Southern Colorado Regional Science Fair
Carol Crossley and Glenda Macklin

Western Regional Science Fair
Sandy Cruz and Rob Robison

MEMBERS AT LARGE

Judy Cara	Linda Carlson
David Clark	Doug Everett
Pat Farnsworth	Nancy Gettman
Steve Iona	Larry Jakel
Charles Johnson	John McConnell
Beverly Meier	Kim Melville-Smith
Candus Muir	David Pfuhl
Judy Prester	Jim Sites
Doug Steward	Laura Ussery
Dan Van Gorp	

PAST CSEF 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
1997 - 1998

Christal McDougall
1995 – 1996

Lucy Adams
1998 – 1999

Courtney Butler
1999 – present

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

WORKING COMMITTEES

Alumni

The focus of this committee is to create ways in which CSEF Alumni can continue to be active in the fair each year (i.e.: recruiting them as judges, volunteers, and/or sponsors) by keeping in contact with graduated seniors.

Awards Ceremony

The focus of this committee is the smooth running of the Awards Ceremony and winner recognition.

Display & Safety

The focus of this committee is to oversee the volunteers who check Finalists' projects for display and safety rules compliance.

Grand Awards Judging

The focus of this committee is to coordinate the recruitment and category assignments of judges. The committee also oversees the work of the judges during the fair, collects and reports the results to the Awards Ceremony committee.

Photography

The focus of this committee is to coordinate the volunteers who take the official photo of Finalists at their projects and the photo of winners at the Awards Ceremony. This committee is also responsible for sending a copy of the official photo to the Finalist, their Regional Fair Director and the CSEF Director.

Publicity

The focus of this committee is to maintain a current list of media contacts around the state of Colorado and to send out press releases to these contacts as deemed appropriate to gain exposure for CSEF. This committee is also responsible for inviting VIPs and media contacts to CSEF for interaction with the Finalists.

Registration

The focus of this committee is to maintain and prepare Finalist registration materials for SRC review and check-in at CSEF.

Room Set-Up

The focus of this committee is to design the layout of the exhibit hall space, taking into account electrical, floor and table space requirements. This committee is also responsible for coordinating with the Lory Student Center for room and material needs and to coordinate the exhibit space set-up at CSEF.

Scholarships

This committee is comprised of representatives from the colleges, universities and organizations providing scholarship money to Finalists through CSEF. Members are responsible for updating the scholarship descriptions each year and advising their institutions of any changes made by CSEF that might affect the number or type of scholarships given.

Scientific Review

The focus of this committee is to review Finalist paperwork for compliance with the ISEF rules and guidelines for student scientific research. The SRC must be comprised of a biomedical scientist (Ph.D., MD, DVM, DDS or DO), a science teacher, and at least one other person.

Special Awards

The focus of this committee is to solicit organizations to give special awards to Finalists based on criteria that the organization sets. This committee is also responsible for overseeing the special award judging process during the fair and report the results to the Awards Ceremony committee.

Student Activities

The focus of this committee is to arrange for the pizza party on Saturday and the guest speaker on Friday.

Tours

The focus of this committee is to arrange for tours and/or presentations of local/university science labs for the Finalists.

Volunteer Coordination

The focus of this committee is to arrange for volunteers to help with photography, display & safety, registration, room set-up, door monitoring, and the awards ceremony. This committee is also responsible for directing volunteers at CSEF.



Appendix 1
52nd Annual Colorado Science and Engineering Fair

Lory Student Center

Fair Headquarters: 2nd Floor Lobby

Colorado State University

Thursday, April 5, 2007

Finalist Schedule

8:30 AM – 11:00 AM	Tour Ticket Sales	Room 213/215
8:30 AM – 11:30 AM	SRC Interviews – <i>Finalists requiring an interview must comply BE-FORE project may be set up.</i>	Room 203/205
9:00 AM – 11:00 AM	Finalist Check-In	Registration Booth
	<i>Finalists MUST stay with their exhibit until Display & Safety Check has been completed and an Official Photo has been taken. Finalists must be out of the exhibit area by noon.</i>	
1:00 PM – 1:20 PM	Finalist Orientation Meeting – <i>Mandatory for all exhibitors.</i>	CSU Theater
1:30 PM – 5:00 PM	Judging – <i>Finalists must be at their exhibits for interviews.</i>	Main Ballroom

Adult Schedule

2:00 PM – 3:30 PM	Regional Fair Director’s Meeting	Room 213/215
3:30 PM – 5:00 PM	ISEF Rule Updates for 2008	Room 213/215

Judging Schedule

10:15 AM – 11:00 AM	Grand Awards Judging Captains’ Briefing	Room 230
11:00 AM - 11:30 AM	Grand Awards Judges’ Briefing	Cherokee Park Room
11:30 AM - 12:30 PM	Grand Awards Judges’ Luncheon	North Ballroom
12:15 PM – 12:30 PM	Special Awards Judges’ Briefing	Room 228
12:00 PM – 5:00 PM	Judging	Main Ballroom
12:00 – 12:30 PM	<u>Grand Awards Judges only</u> in the exhibit rooms.	
12:30 – 1:30 PM	<u>Special Award Judges</u> may enter the exhibit areas. <u>Judges only</u> in the exhibit rooms.	
1:30 – 5:00 PM	<i>Finalists will be at their exhibits for interviews.</i>	
5:30 PM	Exhibit areas are locked. Final Judging continues.	
	<i>No one else is permitted in the exhibit area at this time.</i>	

Friday, April 6, 2007

9:00 AM – 5:00 PM	CSEF Open to the Public	Main Ballroom
9:00 AM – 10:00 AM	Guest Speaker: Stephen Thompson – <i>Fire in the Mind</i>	CSU Theatre
10:30 AM – 3:00 PM	Tours: Finalists, sponsors, families, and judges are invited to participate in the tours.	
2:00 PM	Finalist Ballots for Student Choice and Poster Contest are due.	Registration Booth
7:00 PM	Awards Ceremony	Fort Collins High School

Saturday, April 7, 2007

9:00 AM – 11:00 AM	CSEF Open to the Public – <i>Finalist must be at their projects for interaction with the public.</i>	Main Ballroom
9:00 AM – 11:00 AM	Advisory Council Meeting – open to all	Room 213/215
11:00 AM – 12:00 PM	Pizza Party: Sponsored by <i>Lockheed Martin</i> and provided by <i>Villa Pizza</i> for Finalists, sponsors, families and judges. Finalists must be present to win door prizes!	Main Ballroom
12:00 PM – 1:00 PM	Exhibit Dismantling Everything must be out by 1:00 PM.	
1:00 PM – 3:00 PM	Board of Director’s Meeting – open to all	Room 213/215

The upcoming Intel International Science and Engineering Fair will be in Albuquerque, NM May 13 – 18, 2007.
 Next year’s Colorado Science and Engineering Fair will be April 10 – 12, 2008.

(Dates are subject to change.)

Appendix 2

**2007 Colorado Science and Engineering Fair
Grand Awards Press Release**

Junior Best Individual Projects

First Place

Erik Schnaderbeck 8th grade
What Water Characteristics Affect Aquatic Invertebrates At Tailwater Fisheries
Sargent Jr/Sr High School Monte Vista

Second Place

Ambrose Soehn 8th grade
Natural vs. Synthetic: Polymers In Today's World
Summit Middle School Boulder

Third Place

Alexandria Farnsworth 7th grade
Stop! Type 2 Diabetes In Adolescents
Paonia Jr/Sr High School Paonia

Senior Best Individual Projects

First Place

Chelsea Oden 11th grade
A Wrinkle In Prime: An Investigation Of Prime Properties In A Four-Dimensional Sieve Of Eratosthenes
Monte Vista High School Monte Vista

Second Place

Atticus Bergman 11th grade
That Flocking Convection
Fairview High School Boulder

Third Place

Daniel Smith 11th grade
Reading Fingers: A System For Automatic Guitar Composition
Herzl Rocky Mountain Hebrew Academy Denver

Junior Best Team Projects

First Place

Jonathan Bentley 8th grade
Michelle Saipe 8th grade
Cancer Myths: Are They True? (A Study Of The Effects Of Vitamins & Chemicals On HeLa Cell Growth)
Stanley British Primary School Denver

Second Place

Aiden Acquisto 6th grade
Jaimie Smith 6th grade
Reaction With Distraction
Stanley British Primary School Denver

Third Place

Alex Kerr 8th grade
Rex Berg 8th grade
Look Me In The Eyes
Calhan Middle School Calhan

Honorable Mention

Ashlan Hren 8th grade
Arianna Vierczhalek 8th grade
What About the Brakes?!!
Lake County Middle School Leadville

Honorable Mention

Hanna Pelican 8th grade
Forre Zook 8th grade
Not So Nice
North Middle School Colorado Springs

Senior Best Team Projects

First Place

Bailey Leppek 11th grade
Derek Kramer 11th grade
Ethanol Synthesis From Different Biodegradable Household Waste Products
Cherry Creek High School Greenwood Village

Second Place

Andrew Flynn 11th grade
Wil Cocke 11th grade
Determining The Point Of Entropy: Building A Lorenzian Waterwheel
Palmer High School Colorado Springs

Third Place

Laramie Ulam 12th grade
Brentley Bodycomb 12th grade
Optimum Growth Of Artemia Salina
Canon City High School Canon City

Honorable Mention

Rebecca Siegel 10th grade
Zoe Dostal 10th grade
Thinking Without Thinking: A Study Of Subconscious Biases Towards The Middle East
Palmer High School Colorado Springs

Junior Animal Sciences

First Place

Erik Schnaderbeck 8th grade
What Water Characteristics Affect Aquatic Invertebrates At Tailwater Fisheries
Sargent Jr/Sr High School Monte Vista

Second Place

Nakayla Lestina 7th grade
Biological Control Of Canada Thistle - Analyzing Three Natural Insect Enemies
Dove Creek Middle School Dove Creek

Third Place

Callie Varra 8th grade
What Grade Is Your Egg?
Fruita 8/9 School Fruita

Honorable Mention

Randi Timmons 6th grade
Something's Fishy
Walsh Jr/Sr High School Walsh

Appendix 2

Honorable Mention

Joshua Woodring 7th grade
The Mutant That Would Not Disappear
 The Classical Academy Colorado Springs

Senior Animal Sciences

First Place

DJ Horton 12th grade
Biological Control Of A Common Corn Criminal: Phase 4
 Hotchkiss High School Hotchkiss

Second Place

Caleb Kruse 9th grade
C The Difference: The Effect Of Ascorbic Acid On Fragmented Coral
 Home School Colorado Springs

Third Place

Katlin Hornig 10th grade
The Equine Emotional And Physical Behavior Connection
 Sargent Jr/Sr High School Monte Vista

Honorable Mention

Weston Charles 10th grade
Fowl Company
 Arriba-Flagler School Flagler

Team Nomination

Laramie Ulam 12th grade
 Brentley Bodycomb 12th grade
Optimum Growth Of Artemia Salina
 Canon City High School Canon City

Junior Behavioral & Social Sciences

First Place

Diane Schulze 7th grade
Human Embarrassment
 Cherry Creek Challenge School Denver

Second Place

Reno Tsosie 8th grade
Cultural Relevance In The Navajo Context
 Cortez Middle School Cortez

Third Place

Joshua Garcia 8th grade
Brain Age: How Old Is Your Brain?
 Monte Vista Middle School Monte Vista

Honorable Mention

Jason Francis 7th grade
Does The Type Of Music Effect Your Heart Rate?
 Lamar Middle School Lamar

Honorable Mention

Zoe Phillip 8th grade
Did You See That
 Limon Middle School Limon

Honorable Mention

Katie Savolt 7th grade
Walking To A Beat
 Yuma Middle School Yuma

Team Nomination

Aiden Acquisto 6th grade
 Jaimie Smith 6th grade
Reaction With Distraction
 Stanley British Primary School Denver

Team Nomination

Alex Kerr 8th grade
 Rex Berg 8th grade
Look Me In The Eyes
 Calhan Middle School Calhan

Senior Behavioral & Social Sciences

First Place

Rachel Wynn 11th grade
Social Cognition And Working Memory
 Coronado High School Colorado Springs

Second Place

Kevin Howard 12th grade
Chord Processing And The Critical Band
 Boulder High School Boulder

Third Place

Julia Leonard 11th grade
From Plague To Bird Flu: The Media's Influence In Mass Hysteria
 Palmer High School Colorado Springs

Honorable Mention

Heather Anderson 10th grade
Can Spiders Party?
 Peyton High School Peyton

Honorable Mention

Dustin Brady 11th grade
Beats Of The Brain
 Wray High School Wray

Team Nomination

Rebecca Siegel 10th grade
 Zoe Dostal 10th grade
Thinking Without Thinking: A Study of Subconscious Biases Towards the Middle East
 Palmer High School Colorado Springs

Junior Chemistry

Junior Division

First Place

Ambrose Soehn 8th grade
Natural vs. Synthetic: Polymers In Today's World
 Summit Middle School Boulder

Second Place

Jordan Lestina 8th grade
L-Ascorbic Acid Analyzing Foods By Titration Phase 2, Quantifying The Effects Of Heat & Cold On Vitamin C
 Dove Creek Middle School Dove Creek

Appendix 2

Third Place

Travis Zuniga <i>How Bright Is Your Smile? (The Effects Of Toothpaste On Stains)</i> Roncalli Middle School	8th grade Pueblo
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Honorable Mention

Thayer Sauter <i>Rust</i> Wiggins Elementary School	6th grade Wiggins
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Honorable Mention

Austin Traphagan <i>Smile--It's About Time</i> Yuma Middle School	8th grade Yuma
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Honorable Mention

Anthony Azari <i>Go Bananas</i> Brentwood Middle School	7th grade Greeley
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Honorable Mention

Tessa Kester <i>Why Did My Hair Turn Green?</i> West Middle School	7th grade Grand Junction
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Senior Chemistry

First Place

David Wu <i>Analyzing Hydrogen Storage In A Mg-Al-Zn Alloy</i> Cherry Creek High School	10th grade Greenwood Village
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Second Place

Kyle Mordan <i>Safety Of Mixing Chemical Wastes With Concrete As A Waste Disposal Technique</i> Cherry Creek High School	10th grade Greenwood Village
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Third Place

Sarah Cummings <i>Leaching Of Metals From Cookware By Acidic Solutions</i> Brush High School	10th grade Brush
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Honorable Mention

Tim Schneider <i>Photonics</i> Durango High School	11th grade Durango
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Junior Earth & Space Sciences

First Place

Colin Mummery <i>Ascent From The Deep</i> St. Columba School	7th grade Durango
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Second Place

Tawney Bleak <i>S.O.S. Save Our Soil</i> Otis Jr/Sr High School	8th grade Otis
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Third Place

Alison Seedorf <i>Soybean Growth</i> Yuma Middle School	8th grade Yuma
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Honorable Mention

Lauren Adlhoch <i>Can I Measure The Height Of The Moon's Mountains And The Depths Of Its Craters?</i> St. John the Evangelist School	7th grade Loveland
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Senior Earth & Space Sciences

First Place

Gwyneth Glissmann <i>Mitigating Global Warming By Utilizing Albedo Geoengineering</i> Peak to Peak Charter School	10th grade Lafayette
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Second Place

Stephen Wilfong <i>Return Of The Deadly Snow: A Study Of Avalanche Risk Based On Layers And Types Of Snow</i> Moffat High School	12th grade Moffat
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Third Place

Darci Dobson <i>Looking For Patterns Of Deuterium In The Local Galactic Disk</i> Monte Vista High School	12th grade Monte Vista
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Junior Energy & Transportation

First Place

Alex Nickell <i>Can A Shroud Increase The Electrical Output Of A Wind Turbine?</i> St. John the Evangelist School	7th grade Loveland
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Second Place

Natashia Barker <i>Burn Or Not To Burn: That Is The Question</i> Haxtun Middle School	8th grade Haxtun
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Third Place

Brian Heckman <i>Solar Effects</i> Kinard Core Knowledge School	8th grade Fort Collins
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Honorable Mention

Marina Yamasaki <i>How Efficient Are Your Light Bulbs?</i> Summit Middle School	8th grade Boulder
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Senior Energy & Transportation

First Place

Amanda Rock <i>Biofuels: Oily Alternatives?</i> Wray High School	12th grade Wray
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Second Place

Mandi Loucks <i>Should Hybrids Fly?</i> Grand Junction High School	12th grade Grand Junction
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Third Place

Christy Farnsworth <i>Hydrogen A New Twist</i> Paonia Jr/Sr High School	9th grade Paonia
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Appendix 2

Team Nomination

Bailey Leppek	11th grade
Derek Kramer	11th grade
<i>Ethanol Synthesis From Different Biodegradable Household Waste Products</i>	
Cherry Creek High School	Greenwood Village

Junior Engineering

First Place	
Nathan Weeks	7th grade
<i>Sound Barrier Designs</i>	
The Classical Academy	Colorado Springs
Second Place	
Charles Bergren	7th grade
<i>AM Loop Antenna Design</i>	
Southern Hills Middle School	Boulder
Third Place	
Morgan Wilson	7th grade
<i>Warming Formula With Formulas</i>	
Sargent Jr/Sr High School	Monte Vista
Honorable Mention	
Addison Kramer	8th grade
<i>Ecologically Friendly Roofing</i>	
Cherry Creek Challenge School	Denver
Honorable Mention	
Graham Robinson	8th grade
<i>Keeping Planes From Crashing!</i>	
Cortez Middle School	Cortez

Senior Engineering

First Place	
Daniel Smith	11th grade
<i>Reading Fingers: A System For Automatic Guitar Composition</i>	
Herzl Rocky Mountain Hebrew Academy	Denver
Second Place	
Cameron Kruse	11th grade
<i>The Dirt On Baseball: Standardizing The Baseball Mudding Process</i>	
Home School	Colorado Springs
Third Place	
Ian Donaldson	10th grade
<i>Dynamic Axial Deformation Trends Of High-Strength Metal Tube Core Automotive Crush Zones</i>	
Broomfield High School	Broomfield
Honorable Mention	
Maxwell Wheeler	12th grade
<i>A New Frequency For Help! Exploring Propagation Characteristics Of The 500 kHz Frequency</i>	
Nederland Jr/Sr High School	Nederland
Honorable Mention	
Daniel Armstrong	12th grade
<i>Designing A Digital Hearing Aid Program</i>	
Monte Vista High School	Monte Vista

Junior Environmental Sciences

First Place	
Alexandra Proietti	8th grade
<i>Fuel Of The Future, Toasty With Tamarisk</i>	
Holy Family Catholic School	Grand Junction
Second Place	
Lorne Muir II	7th grade
<i>Hydrophobic Soil Rehabilitation</i>	
The Classical Academy	Colorado Springs
Third Place	
Corey Becker	8th grade
<i>Get'n Down 'n' Dirty</i>	
Monte Vista Middle School	Monte Vista
Honorable Mention	
Rachel Beverlin	7th grade
<i>Geyser Spring: Characteristics Of Colorado's Only Geyser</i>	
Dolores Middle School	Dolores
Honorable Mention	
Vincent Burkhardt	7th grade
<i>Do Car Associated Chemicals Affect Daphnia Mortality?</i>	
Stanley British Primary School	Denver
Honorable Mention	
Hannah Carrese	8th grade
<i>Hg - The Lethal Element: Emissions From A Coal-Fired Power Plant</i>	
North Middle School	Colorado Springs
Honorable Mention	
Brooke Grissom	8th grade
<i>Soil Erosion: A Growing Problem</i>	
Fowler Junior High School	Fowler

Senior Environmental Sciences

First Place	
Eric Keeling	12th grade
<i>A Study On Rhizofiltration With Helianthus annuus And Its Effect On Coal Bed Methane Produced Water</i>	
La Veta Jr/Sr High School	La Veta
Second Place	
Alex Schnaderbeck	11th grade
<i>Shape Up: The Relationship Between Trout Habitat And Differently Shaped Rocks.</i>	
Sargent Jr/Sr High School	Monte Vista
Third Place	
John Huffman	12th grade
<i>Response Of Euglena gracilis To Magnesium Chloride Exposure</i>	
Eagle Valley High School	Gypsum
Honorable Mention	
Christopher Krause	9th grade
<i>Operation: Dig It!</i>	
The Classical Academy	Colorado Springs

Appendix 2

Honorable Mention

Evan Duggan	12th grade
<i>Removal Of Targeted Organic Compounds From Municipal Waste Water</i>	
Cherry Creek High School	Greenwood Village

Junior Mathematics & Computer Sciences

First Place

Garrett Glissmann	7th grade
<i>Identifying Minutiae Within A Fingerprint</i>	
Peak to Peak Charter School	Lafayette

Second Place

Rahul Shankar	7th grade
<i>A Software Tool To Calculate Alignment Of Nucleotide Sequences To Classify The Cryptoprocta Ferox</i>	
Mountain Ridge Middle School	Colorado Springs

Third Place

Jack Donelson	8th grade
<i>Predicting Success In Basketball By Statistical Analysis</i>	
Mackintosh Academy	Littleton

Honorable Mention

Austin Cerny	8th grade
<i>Slow Computer Got You Down?</i>	
Eagle County Charter Academy	Edwards

Senior Mathematics & Computer Sciences

First Place

Chelsea Oden	11th grade
<i>A Wrinkle In Prime: An Investigation Of Prime Properties In A Four-Dimensional Sieve Of Eratosthenes</i>	
Monte Vista High School	Monte Vista

Second Place

Tommaso Buvoli	12th grade
<i>Machine Learning And Data Classification</i>	
Fairview High School	Boulder

Third Place

Ian Springer	12th grade
<i>Inside The Matrix: Solving Sudoku Puzzles Using Visual Basic</i>	
Lamar High School	Lamar

Team Nomination

Andrew Flynn	11th grade
Wil Cocke	11th grade
<i>Determining The Point Of Entropy: Building A Lorenzian Waterwheel</i>	
Palmer High School	Colorado Springs

Junior Medicine & Health

First Place

Alexandria Farnsworth	7th grade
<i>Stop! Type 2 Diabetes In Adolescents</i>	
Paonia Jr/Sr High School	Paonia

Second Place

Russell Tappy	7th grade
<i>Performance Enhancers, Are They In You? The Effect Of Performance Enhancers On G. portentosa</i>	
Merino Jr/Sr High School	Merino

Third Place

Soren Frykholm	8th grade
<i>The Nose Knows: A Better Way To Breathe?</i>	
Summit Middle School	Boulder

Honorable Mention

Casey Campbell	6th grade
<i>Reaction Action</i>	
La Veta Elementary School	La Veta

Honorable Mention

Susannah Rogers	8th grade
<i>It's All My Brother's Fault: The Effects Of Chloroquine On Melanin And Melanoma</i>	
North Middle School	Colorado Springs

Honorable Mention

Tanner Zimmerman	6th grade
<i>Mercy MRSA</i>	
Riverside Middle School	New Castle

Honorable Mention

Zack Clemmons	7th grade
<i>24</i>	
The Classical Academy	Colorado Springs

Honorable Mention

Holly Isbell	7th grade
<i>To Be Healthy Or Not To Be, That Is The Question: The Effect Of Omega-3 And Omega-6 On C. elegans</i>	
Merino Jr/Sr High School	Merino

Honorable Mention

John Gordon	6th grade
<i>Arches, Loops, And Whorls</i>	
American Academy	Lone Tree

Team Nomination

Jonathan Bentley	8th grade
Michelle Saipe	8th grade
<i>Cancer Myths: Are They True? (A Study Of The Effects Of Vitamins & Chemicals On HeLa Cell Growth)</i>	
Stanley British Primary School	Denver

Senior Medicine & Health

First Place

Ashley Pollock	12th grade
<i>Tissue Distribution And Mitochondrial Function Of The Parkinson's Disease Related Protein DJ-1</i>	
Wiggins Jr/Sr High School	Wiggins

Second Place

Nicholas Greos	12th grade
<i>Evaluation Of Concussions In Teen Sports</i>	
Cherry Creek High School	Greenwood Village

Third Place

Young Kim	11th grade
<i>Chlorophyll As A Sunscreening Agent</i>	
Cherry Creek High School	Greenwood Village

Appendix 2

Honorable Mention

Jenna Gerber 12th grade
Diffusion And Osmosis
 Walsh Jr/Sr High School Walsh

Junior Microbiology

First Place

Ashleigh West 8th grade
*The Use Of UV Light To Sterilize Leafy Vegetables As A Means
 Of Improving Food Safety*
 West Jefferson Middle School Conifer

Second Place

Sara Volz 6th grade
What Common Substances Best Kill Bacteria On The Skin?
 North Middle School Colorado Springs

Third Place

Tucker Carver 7th grade
Bad To The Bowl! How Clean Is Your Drinking Water?
 Merino Jr/Sr High School Merino

Honorable Mention

Stephen O'Connor-Seville 7th grade
Ethanol From Dead Wood
 Dolores Middle School Dolores

Team Nomination

Hanna Pelican 8th grade
 Forre Zook 8th grade
Not So N'ice
 North Middle School Colorado Springs

Senior Microbiology

First Place

Daniel Joos 10th grade
*The Effects OF Essential Oils On Microspourm Canus Distor-
 tum*
 Fleming High School Fleming

Second Place

Lindsey Rugh 10th grade
Fire On The Mountain Phase II
 Hotchkiss High School Hotchkiss

Third Place

Anika Petach 10th grade
*Tracking And Preventing The Ophiostoma Fungus Of The
 Mountain Pine Bark Beetle*
 Fairview High School Boulder

Honorable Mention

Sarah Boyle 10th grade
*The Effects Of L-glutathione And Ampicillin On The Gram-
 Negative Bacteria: Escherichia coli*
 Durango High School Durango

Honorable Mention

Leslie Hase 12th grade
*A Combat Against Cavity Causing Bacteria: Raisins As A Func-
 tional Food For Oral Health*
 Merino Jr/Sr High School Merino

Junior Physics

First Place

Kerry Betz 8th grade
Something's Decaying In My Basement
 Summit Middle School Boulder

Second Place

Rachel Washam 8th grade
Hardened Without Heat
 St. John the Evangelist School Loveland

Third Place

Emily Sandner 6th grade
Oil; Fact Or Friction - Synthetic vs Petroleum
 St. Columba School Durango

Honorable Mention

Savannah Lyle 6th grade
On A Roll
 North Middle School Colorado Springs

Honorable Mention

Layne Barrett 7th grade
Bounce Your Way Down The Fairway
 The Classical Academy Colorado Springs

Team Nomination

Ashlan Hren 8th grade
 Arianna Vierczhalek 8th grade
What About the Brakes?!!
 Lake County Middle School Leadville

Senior Physics

First Place

Atticus Bergman 11th grade
That Flocking Convection
 Fairview High School Boulder

Second Place

Vicky Li 11th grade
Grating-Stabilized Diode Lasers For Cooling Sr-87 Atoms
 Fairview High School Boulder

Third Place

Matt Wenger 12th grade
Brillouin Light Scattering
 Doherty High School Colorado Springs

Honorable Mention

Shelby Messer 9th grade
High Voltage
 Genoa-Hugo School Hugo

Honorable Mention

Julia Buzan 11th grade
Quantifying The Quality Of Violins
 Cherry Creek High School Greenwood Village

Appendix 2

Junior Plant Sciences

First Place		
Andrew Theobald	8th grade	
<i>Windy Gardens</i>		
North Middle School	Colorado Springs	
Second Place		
Justin Lewton	7th grade	
<i>The Green Thumb Problem</i>		
Weld Central Junior High School	Keenesburg	
Third Place		
Amber Vesely	8th grade	
<i>How Does Your Garden Grow?</i>		
Boltz Junior High School	Fort Collins	
Honorable Mention		
Cade Daugherty	8th grade	
<i>Biological Control Of Locoweed</i>		
Branson School	Branson	
Honorable Mention		
Danielle Rinaldo	7th grade	
<i>Lotus Flower Has The Power! The Effect Of Nulumbo nucife On Fog Formation</i>		
Merino Jr/Sr High School	Merino	
Honorable Mention		
Billy Carruth	6th grade	
<i>How Magnetism Effects Plant Growth</i>		
Washington Intermediate School	Walsenburg	
Honorable Mention		
Hannah Ekblad	8th grade	
<i>The Effect Of Recycled Newspaper On Pea Germination In A Heavy Clay Soil</i>		
Blevins Junior High School	Fort Collins	

Honorable Mention

K C Zinn	7th grade
<i>Counting On Canela</i>	
Sargent Jr/Sr High School	Monte Vista

Honorable Mention

Anna Rooney	8th grade
<i>How Sweet Is Your Potato?</i>	
Sargent Jr/Sr High School	Monte Vista

Senior Plant Sciences

First Place		
Kaitlyn Lingus	11th grade	
<i>One "Mite"y Mission: Biological Compensation Suppression Of Convolvulus arvensis Implementing Host-Specific Aceria malherbae. . . Phase III</i>		
Branson School	Branson	
Second Place		
Michaela Kaiser	12th grade	
<i>Peace Of Mind Potential For Current Season Spread In Colorado's Post Harvest Test</i>		
Sargent Jr/Sr High School	Monte Vista	
Third Place		
Erin Neumann	12th grade	
<i>Water On Demand: The Effects Of Soil Additives On Plant Growth And Germination</i>		
Wray High School	Wray	
Honorable Mention		
Gabriel Sachter-Smith	12th grade	
<i>Hybridization Of Edible Diploid Eumusa Varieties And Wild Rhodochlamys Musa Species</i>		
Nederland Jr/Sr High School	Nederland	

Appendix 2
2007 Colorado Science and Engineering Fair
Special Awards Press Release

Military

United States Air Force

Graham Robinson 8th grade
 certificate, padfolio organizer, USB flash drive, PDA, pen &
 pencil set
 Cortez Middle School Cortez
Keeping Planes From Crashing!

Dillon Rose 7th grade
 certificate, padfolio organizer, USB flash drive, PDA, pen &
 pencil set
 Springfield Jr/Sr High School Springfield
Go Fly A Brick

Mandi Loucks 12th grade
 certificate, padfolio organizer, USB flash drive, PDA, pen &
 pencil set
 Grand Junction High School Grand Junction
Should Hybrids Fly?

Cole Bostrom 11th grade
 certificate, padfolio organizer, USB flash drive, PDA, pen &
 pencil set
 Brush High School Brush
Design And Construction Of A Micro Air Vehicle

United States Army

John Kwon 9th grade
 certificate, silver medallion, \$100 savings bond
 Pine Creek High School Colorado Springs
Exploration Through The "Monsters" Of The Universe

Darci Dobson 12th grade
 certificate, \$50 savings bond
 Monte Vista High School Monte Vista
Looking For Patterns Of Deuterium In The Local Galactic Disk

Daniel Smith 11th grade
 certificate, \$50 savings bond
 Herzl Rocky Mountain Hebrew Denver
Reading Fingers: A System For Automatic Guitar Composition

Kaitlyn Lingus 11th grade
 certificate, \$50 savings bond
 Branson School Branson
*One "Mite"y Mission: Biological Compensation Suppression Of
 Convolvulus arvensis Implementing Host-Specific Aceria mal-
 herbae. . . Phase III*

Ian Springer 12th grade
 certificate, \$50 savings bond
 Lamar High School Lamar
Inside The Matrix: Solving Sudoku Puzzles Using Visual Basic

United States Navy & Marine Corps

Tim Schneider 11th grade
 certificate, \$75 gift certificates, medallion
 Durango High School Durango
Photonics

Ian Donaldson 10th grade
 certificate, \$75 gift certificates, medallion
 Broomfield High School Broomfield
*Dynamic Axial Deformation Trends Of High-Strength Metal
 Tube Core Automotive Crush Zones*

Daniel Armstrong 12th grade
 certificate, \$75 gift certificates, medallion
 Monte Vista High School Monte Vista
Designing A Digital Hearing Aid Program

Julia Leonard 11th grade
 certificate, \$75 gift certificates, medallion
 Palmer High School Colorado Springs
*From Plague To Bird Flu: The Media's Influence In Mass Hys-
 teria*

Katie Mussell 12th grade
 Amanda Stickley 12th grade

certificate, medallion
 Brush High School Brush
Shift Code Encryption

Russell Tappy 7th grade
 certificate, medallion
 Merino Jr/Sr High School Merino
*Performance Enhancers, Are They In You? The Effect Of Per-
 formance Enhancers On G. portentosa*

Alexandra Proietti 8th grade
 certificate, medallion
 Holy Family Catholic School Grand Junction
Fuel Of The Future, Toasty With Tamarisk

Addison Kramer 8th grade
 certificate, medallion
 Cherry Creek Challenge School Denver
Ecologically Friendly Roofing

Charles Bergren 7th grade
 certificate, medallion
 Southern Hills Middle School Boulder
AM Loop Antenna Design

Organizational

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

Hannah Carrese 8th grade
 North Middle School Colorado Springs
*Hg - The Lethal Element: Emissions From A Coal-Fired Power
 Plant*

Evan Duggan 12th grade
 Cherry Creek High School Greenwood Village
*Removal Of Targeted Organic Compounds From Municipal
 Waste Water*

Appendix 2

American Association of University Women

Brooke Grissom 8th grade
 \$100
 Fowler Junior High School Fowler
Soil Erosion: A Growing Problem

American Chemical Society Colorado Local Section

Austin Traphagan 8th grade
 certificate, \$100
 Yuma Middle School Yuma
Smile--It's About Time

Vicky Li 11th grade
 certificate, \$100
 Fairview High School Boulder
Grating-Stabilized Diode Lasers For Cooling Sr-87 Atoms

American Institute of Chemical Engineers Rocky Mountain Section

Katelyn Yowell 8th grade
 \$75
 Genoa-Hugo School Hugo
Chlorophyll Chromatography

Nathan Weeks 7th grade
 \$100
 The Classical Academy Colorado Springs
Sound Barrier Designs

Bailey Leppek 11th grade
 Derek Kramer 11th grade
 \$75
 Cherry Creek High School Greenwood Village
*Ethanol Sythesis From Different Biodegradable Household
 Waste Products*

Eric Keeling 12th grade
 \$100
 La Veta Jr/Sr High School La Veta
*A Study On Rhizofiltration With Helianthus annuus And Its Ef-
 fect On Coal Bed Methane Produced Water*

American Statistical Association Colorado/Wyoming Chapter

Jack Donelson 8th grade
 \$75, acknowledgement at chapter spring meeting and
 on chapter web site
 Mackintosh Academy Littleton
Predicting Success In Basketball By Statistical Analysis

Soren Frykholm 8th grade
 \$75, engraved Ipod Shuffle, acknowledgement at
 chapter spring meeting and on chapter web site
 Summit Middle School Boulder
The Nose Knows: A Better Way To Breathe?

Fletcher Gorman 11th grade
 \$75, acknowledgement at chapter spring meeting and
 on chapter web site
 Fleming High School Fleming
Tunes: The New Brain Food

Kevin Howard 12th grade
 \$75, engraved Ipod Shuffle, acknowledgement at
 chapter spring meeting and on chapter web site
 Boulder High School Boulder
Chord Processing And The Critical Band

American Vacuum Society Rocky Mountain Chapter

Kerry Betz 8th grade
 \$50, matching award to teacher/sponsor
 Summit Middle School Boulder
Something's Decaying In My Basement

Hannah Carrese 8th grade
 \$100, matching award to teacher/sponsor
 North Middle School Colorado Springs
*Hg - The Lethal Element: Emissions From A Coal-Fired Power
 Plant*

Gwyneth Glissmann 10th grade
 \$50, matching award to teacher/sponsor
 Peak to Peak Charter School Lafayette
Mitigating Global Warming By Utilizing Albedo Geoengineering

Vicky Li 11th grade
 \$100, matching award to teacher/sponsor
 Fairview High School Boulder
Grating-Stabilized Diode Lasers For Cooling Sr-87 Atoms

Armbruster Associates

Charles Armbruster Memorial Award

Elizabeth Napier 6th grade
 \$100
 Escalante Middle School Durango
Flying High

ASM International

Ambrose Soehn 8th grade
 \$50
 Summit Middle School Boulder
Natural vs. Synthetic: Polymers In Today's World

David Wu 10th grade
 \$75
 Cherry Creek High School Greenwood Village
Analyzing Hydrogen Storage In A Mg-Al-Zn Alloy

Association for Women Geoscientists

Laramide Chapter

Samantha Ensz 8th grade
 "Achievement Medal", \$50, mineral specimen
 Hi-Plains Jr/Sr High School Seibert
Successful Soil

Saraiya Ruano 11th grade
 "Achievement Medal", \$50, mineral specimen
 Coronado High School Colorado Springs
The Road Less Traveled

Appendix 2

Cherry Creek Basin Water Quality Authority

Mariah Hanley 12th grade
\$50
Cherry Creek High School Greenwood Village
Correlations Between Snow Contamination And The Air Quality Index

Colorado Association of Meat Processors

Sarah Boyle 10th grade
certificate, \$60
Durango High School Durango
The Effects Of L-glutathione And Ampicillin On The Gram-Negative Bacteria: Escherichia coli

Colorado Association of Science Teachers

Jeffrey Hibbert 8th grade
certificate, \$50
Lone Star School Otis
Wastewater Watts: A Study Of Microbial Fuel Cells
David Michel 7th grade
certificate, \$50
Merino Jr/Sr High School Merino
Aloe Vera Myth Or Medicine? The Effect Of Aloe Vera On M. sexta And G. portentosa

Erin Neumann 12th grade
certificate, \$50
Wray High School Wray
Water On Demand: The Effects Of Soil Additives On Plant Growth And Germination
Rebecca Siegel 10th grade
Zoe Dostal 10th grade
certificate, \$50
Palmer High School Colorado Springs
Thinking Without Thinking: A Study of Subconscious Biases Towards the Middle East

Gerald Gromko Award

Daniel Armstrong 12th grade
\$150, plaque
Monte Vista High School Monte Vista
Designing A Digital Hearing Aid Program

Colorado Biology Teacher's Association

Erik Schnaderbeck 8th grade
certificate, \$75
Sargent Jr/Sr High School Monte Vista
What Water Characteristics Affect Aquatic Invertebrates At Tailwater Fisheries
Ashley Pollock 12th grade
certificate, \$75
Wiggins Jr/Sr High School Wiggins
Tissue Distribution And Mitochondrial Function Of The Parkinson's Disease Related Protein DJ-1

Colorado Dental Association

Austin Traphagan 8th grade
plaque, \$25, invitation to present projects at the Colorado Dental Association's Annual Meeting
Yuma Middle School Yuma
Smile--It's About Time

Leslie Hase 12th grade
plaque, \$50, invitation to present projects at the Colorado Dental Association's Annual Meeting
Merino Jr/Sr High School Merino
A Combat Against Cavity Causing Bacteria: Raisins As A Functional Food For Oral Health

Colorado Division of Wildlife

Vincent Burkhardt 7th grade
certificate, DOW Book or video
Stanley British Primary School Denver
Do Car Associated Chemicals Affect Daphnia

Erik Schnaderbeck 8th grade
\$50, packet of Colorado Division of Wildlife products
Sargent Jr/Sr High School Monte Vista
What Water Characteristics Affect Aquatic Invertebrates At Tailwater Fisheries

Saraiya Ruano 11th grade
certificate, DOW Book or video
Coronado High School Colorado Springs
The Road Less Traveled

Alex Schnaderbeck 11th grade
\$50, packet of Colorado Division of Wildlife products
Sargent Jr/Sr High School Monte Vista
Shape Up: The Relationship Between Trout Habitat And Differently Shaped Rocks.

Colorado Environmental Health Association

Hannah Carrese 8th grade
certificate, \$50
North Middle School Colorado Springs
Hg - The Lethal Element: Emissions From A Coal-Fired Power Plant

Mariah Hanley 12th grade
certificate, \$100, invitation to exhibit at the CEHA Annual Educational Conference (\$400 value)
Cherry Creek High School Greenwood Village
Correlations Between Snow Contamination And The Air Quality Index

Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Nakayla Lestina 7th grade
certificate, \$50
Dove Creek Middle School Dove Creek
Biological Control Of Canada Thistle - Analyzing Three Natural Insect Enemies

Lorne Muir II 7th grade
certificate, \$50
The Classical Academy Colorado Springs
Hydrophobic Soil Rehabilitation

Appendix 2

DJ Horton
certificate, \$50
Hotchkiss High School
Biological Control Of A Common Corn Criminal: Phase IV
12th grade
Hotchkiss

Michaela Kaiser
certificate, \$50
Sargent Jr/Sr High School
Peace Of Mind Potential For Current Season Spread In Colorado's Post Harvest Test
12th grade
Monte Vista

Colorado Geological Survey & Division of Reclamation Mining and Safety

Dylan Cleveland
certificate
Canon City Middle School
Does The Earth Move Under Your Feet?
6th grade
Canon City

Tawney Bleak
\$150
Otis Jr/Sr High School
S.O.S. Save Our Soil
8th grade
Otis

Bailey Jones
certificate
Canon City High School
Which Rock, What Time, Which Fossil Can You Find?
12th grade
Canon City

Adam Goss
\$150
Brush High School
Computer Simulation Of Erosion Patterns
11th grade
Brush

Colorado Medical Society

Tanner Zimmerman
\$100
Riverside Middle School
Mercy MRSA
6th grade
New Castle

Nicholas Greos
\$100
Cherry Creek High School
Evaluation Of Concussions In Teen Sports
12th grade
Greenwood Village

Colorado Mineral Society

Bailey Jones
\$40, 2 mineral specimens, book
Canon City High School
Which Rock, What Time, Which Fossil Can You Find?
12th grade
Canon City

Colorado Mycological Society

Anika Petach
\$50, Colorado Mushrooms book
Fairview High School
Tracking And Preventing The Ophiostoma Fungus Of The Mountain Pine Bark Beetle
10th grade
Boulder

Colorado River Watch

Eric Keeling
\$50, certificate
La Veta Jr/Sr High School
A Study On Rhizofiltration With Helianthus annuus And Its Effect On Coal Bed Methane Produced Water
12th grade
La Veta

Colorado Science and Engineering Fair *Pioneers of Science*

Animal Sciences - George L. C. Cuvier

Avery DiUbaldo
certificate, \$30
Cherry Creek Challenge School
Studies Of The Pheromonal Capabilities Of The Western Harvester Ant
8th grade
Denver

Behavioral & Social Sciences - Abraham Maslow

Majed Aldhamari
certificate, \$30
Blevins Junior High School
Chromatic Adaptation
8th grade
Fort Collins

Behavioral & Social Sciences - Margaret Mead

Cody Hervert
certificate, \$30
Eagle County Charter Academy
Intoxicated - Intehnicated "What's The Difference"
8th grade
Edwards

Chemistry - Alfred Bernhard Nobel

Katie Romano
certificate, \$30
Harrison Middle School
The Day After . . . A Day At The Beach
6th grade
Canon City

Chemistry - Marie Curie

Jorge Arredondo
certificate, \$30
Cheyenne Wells Middle School
Chlorinated Water Vs. Carbon Filters
8th grade
Cheyenne Wells

Earth & Space Sciences - Alfred Lothar Wegner

Dylan Cleveland
certificate, \$30
Canon City Middle School
Does The Earth Move Under Your Feet?
6th grade
Canon City

Energy & Transportation - James Prescott Joule

Taylor Bond
certificate, \$30
St. Peter's Lutheran School
Get Your Head Out Of The Cloud Point
6th grade
Monte Vista

Energy & Transportation - Sir William Grove

Isaiah Branch-Boyle
certificate, \$30
St. Columba School
Journey To A Hydrogen Future
8th grade
Durango

Engineering - James Buchanan Eads

Jana Elrick
certificate, \$30
Flagler Public School
Whether It Weathers
7th grade
Flagler

Appendix 2

Engineering - Nicola Tesla

Noah Jordan 6th grade
certificate, \$30
Windsor Charter Academy Windsor
A Sticky Situation

Environmental Sciences - Rachel Louise Carson

Alyssa Loveland 7th grade
certificate, \$30
Lamar Middle School Lamar
Did Lamar Receive Any Acid Snow?

Mathematics & Computer Sciences - Charles Babbage

Joshua Shettler 8th grade
certificate, \$30
Holy Family Catholic School Grand Junction
Mathematical Algorithms And The Physics Of A Roller Coaster

Medicine & Health - Albert Schweitzer

Laci Pennington 7th grade
certificate, \$30
Lamar Middle School Lamar
Does Heat Affect Your Hair Strength?

Medicine & Health - Hippocrates

Kally Williams 6th grade
certificate, \$30
Cortez Middle School Cortez
How Do Different Beverages Effect Human Teeth?

Microbiology - Jonas Edward Salk

Brenna Christensen 6th grade
certificate, \$30
Miller Middle School Durango
Jammin' Germs

Physics - Albert Einstein

Phillip Foy 8th grade
certificate, \$30
Otis Jr/Sr High School Otis
Amazing Ice

Physics - Sir Isaac Newton

Sami Hourieh 6th grade
certificate, \$30
Parkview Elementary School Lamar
Electromagnets And Iron Bolts

Plant Sciences – Luther Burbank

Alexa Major 7th grade
certificate, \$30
Fowler Junior High School Fowler
Good Salt, Bad Salt - Which Is Which?

Ralph Desch Memorial Technical Writing Award

John Huffman 12th grade
certificate, \$100
Eagle Valley High School Gypsum
Response Of Euglena gracilis To Magnesium Chloride Exposure

Poster Art Contest

Marlee Canada 8th grade
certificate, trophy, \$100
Home Schooled Mosca

Student Choice Award

Abbi Helfer 7th grade
certificate, trophy, \$100
North Middle School Colorado Springs
Pan-Demonium
Leslie Hase 12th grade
certificate, trophy, \$100
Merino Jr/Sr High School Merino
A Combat Against Cavity Causing Bacteria: Raisins As A Functional Food For Oral Health

Colorado Scientific Society

Hannah Carrese 8th grade
\$50
North Middle School Colorado Springs
Hg - The Lethal Element: Emissions From A Coal-Fired Power Plant
Nia Quadracci 6th grade
\$75
Bromley East Charter School Brighton
Icy Albedo
Austin Nichols 11th grade
\$75
Brush High School Brush
The Controlled Growth Of Penitente Structures
Bailey Jones 12th grade
\$100
Canon City High School Canon City
Which Rock, What Time, Which Fossil Can You Find?

Colorado Veterinary Medical Association (CVMA) & CVMA Auxiliary & Auxiliary to the AVMA

Cade Daugherty 8th grade
certificate & gold medallion from the Auxiliary to the AVMA,
\$50 from the CVMA, \$50 from the CVMA Auxiliary
Branson School Branson
Biological Control Of Locoweed
Katlin Hornig 10th grade
certificate & gold medallion from the Auxiliary to the
AVMA, \$50 from the CVMA, \$50 from the CVMA Auxiliary
Sargent Jr/Sr High School Monte Vista
The Equine Emotional And Physical Behavior Connection

Colorado-Wyoming Society of American Foresters

Alexandra Proietti 8th grade
\$100 savings bond
Holy Family Catholic School Grand Junction
Fuel Of The Future, Toasty With Tamarisk

Appendix 2

Dylan Proietti 10th grade
 \$100 savings bond
 Grand Junction High School Grand Junction
From Eradication To Utilization: Cooking Tastily With Tamarisk

CSU, Department of Biochemistry & Molecular Biology

Ashley Pollock 12th grade
 certificate, \$100
 Wiggins Jr/Sr High School Wiggins
Tissue Distribution And Mitochondrial Function Of The Parkinson's Disease Related Protein DJ-1

CSU, Department of Chemistry

Tessa Kester 7th grade
 certificate, \$100
 West Middle School Grand Junction
Why Did My Hair Turn Green?

David Wu 10th grade
 certificate, \$100
 Cherry Creek High School Greenwood Village
Analyzing Hydrogen Storage In A Mg-Al-Zn Alloy

CSU, Department of Horticulture & Landscape Architecture

Anna Rooney 8th grade
 \$100
 Sargent Jr/Sr High School Monte Vista
How Sweet Is Your Potato?

Michaela Kaiser 12th grade
 \$100
 Sargent Jr/Sr High School Monte Vista
Peace Of Mind Potential For Current Season Spread In Colorado's Post Harvest Test

K C Zinn 7th grade
 \$100
 Sargent Jr/Sr High School Monte Vista
Counting On Canela

Gabriel Sachter-Smith 12th grade
 \$100
 Nederland Jr/Sr High School Nederland
Hybridization Of Edible Diploid Eumusa Varieties And Wild Rhodochlamys Musa Species

Eppler Family

Marina Yamasaki 8th grade
 microprocessor kit and digital multimeter (value \$150)
 Summit Middle School Boulder
How Efficient Are Your Light Bulbs?

Charles Bergren 7th grade
 microprocessor kit and digital multimeter (value \$150)
 Southern Hills Middle School Boulder
AM Loop Antenna Design

Fort Collins Conservation District

Alexandra Proietti 8th grade
 \$50, plaque
 Holy Family Catholic School Grand Junction
Fuel Of The Future, Toasty With Tamarisk

Dylan Proietti 10th grade
 \$50, plaque
 Grand Junction High School Grand Junction
From Eradication To Utilization: Cooking Tastily With Tamarisk

Human Factors & Ergonomics Society Rocky Mountain Chapter

Aiden Acquisto 6th grade
 Jaimie Smith 6th grade
 \$100
 Stanley British Primary School Denver
Reaction With Distraction

Institute of Electrical and Electronics Engineers

Austin Cerny 8th grade
 \$100
 Eagle County Charter Academy Edwards
Slow Computer Got You Down?

Daniel Smith 11th grade
 \$150
 Herzl Rocky Mountain Hebrew Denver
Reading Fingers: A System For Automatic Guitar Composition
 Maxwell Wheeler 12th grade
 \$100
 Nederland Jr/Sr High School Nederland
A New Frequency For Help! Exploring Propagation Characteristics Of The 500 kHz Frequency

Tim Schneider 11th grade
 \$100
 Durango High School Durango
Photonics

Intel Foundation

Intel Foundation Computer Award

Ambrose Soehn 8th grade
 certificate, laptop computer (to be mailed later)
 Summit Middle School Boulder
Natural vs. Synthetic: Polymers In Today's World

Chelsea Oden 11th grade
 certificate, laptop computer (to be mailed later)
 Monte Vista High School Monte Vista
A Wrinkle In Prime: An Investigation Of Prime Properties In A Four-Dimensional Sieve Of Eratosthenes

Lockheed Martin

Graham Robinson 8th grade
 \$50 US savings bond
 Cortez Middle School Cortez
Keeping Planes From Crashing!

Appendix 2

Darci Dobson 12th grade
 \$100 US savings bond, model rocket
 Monte Vista High School Monte Vista
Looking For Patterns Of Deuterium In The Local Galactic Disk

Teacher of the Year Award

Haydee Phelps
 \$3,000 grant to support student research facilitated by them
 and/or to fund programs in their district that would best enhance
 instruction in the sciences and engineering
 Summit Middle School Boulder

MAST Hotline

Lauren Adlhoch 7th grade
 \$50
 St. John the Evangelist School Loveland
*Can I Measure The Height Of The Moon's Mountains And The
 Depths Of Its Craters?*

Daniel Joos 10th grade
 \$50
 Fleming High School Fleming
*The Effects OF Essential Oils On Microspourm Canus Distor-
 tum*

MWH Americas, Inc.

Addison Kramer 8th grade
 \$100, plaque
 Cherry Creek Challenge School Denver
Ecologically Friendly Roofing

Gwyneth Glissmann 10th grade
 \$200, plaque
 Peak to Peak Charter School Lafayette
Mitigating Global Warming By Utilizing Albedo Geoengineering

National Geophysical Data Center

Hannah Carrese 8th grade
 certificate or recognition, plaque, \$100 savings bond
 North Middle School Colorado Springs
*Hg - The Lethal Element: Emissions From A Coal-Fired Power
 Plant*

National Renewable Energy Laboratory

Christy Farnsworth 9th grade
 \$100
 Paonia Jr/Sr High School Paonia
Hydrogen A New Twist

Optical Society of America Rocky Mountain Section

Patrick Halde 8th grade
 certificate, 1-year subscription to Discover magazine
 Cheyenne Wells Middle School Cheyenne Wells
Changing Refractions Reaction

Tim Schneider 11th grade
 certificate, 1-year subscription to Discover magazine
 Durango High School Durango
Photonics

Rio Tinto Minerals, Inc.

Jayce Breig 8th grade
 \$50
 West Jefferson Middle School Conifer
Which Insulation Material Is Better?

Hannah Ekblad 8th grade
 \$100
 Blevins Junior High School Fort Collins
*The Effect Of Recycled Newspaper On Pea Germination In A
 Heavy Clay Soil*

Miranda Parmer 9th grade
 \$50
 Genoa-Hugo School Hugo
The Flammability Of Fabrics For Home Safety

Kelsey Burns 10th grade
 \$100
 Arriba-Flagler School Flagler
*Tumble On In! Exploring The Potential Of Russian Thistle As A
 Source Of Insulation*

Rocky Mountain Association of Geologists

Rachel Beverlin 7th grade
 cash award
 Dolores Middle School Dolores
Geyser Spring: Characteristics Of Colorado's Only Geyser

Darci Dobson 12th grade
 cash award
 Monte Vista High School Monte Vista
Looking For Patterns Of Deuterium In The Local Galactic Disk

Patrick Martin 12th grade
 cash award
 Canon City High School Canon City
Environmental Repercussions In Fremont County

Grant Slinger 10th grade
 cash award
 Stratton High School Stratton
Effects Of Soil Type On Groundwater Contamination

Rocky Mountain Goats Foundation

Tawney Bleak 8th grade
 \$150
 Otis Jr/Sr High School Otis
S.O.S. Save Our Soil

Anika Petach 10th grade
 \$150
 Fairview High School Boulder
*Tracking And Preventing The Ophiostoma Fungus Of The
 Mountain Pine Bark Beetle*

Rocky Mountain Water Environment Association

Taylor Fogg 7th grade
 \$50
 The Classical Academy Colorado Springs
Poop, Etc.

Appendix 2

Dana Louie \$100 North Middle School <i>Understanding Eutrophication</i>	8th grade Colorado Springs
Grant Slinger \$50 Stratton High School <i>Effects Of Soil Type On Groundwater Contamination</i>	10th grade Stratton
Eric Keeling \$100 La Veta Jr/Sr High School <i>A Study On Rhizofiltration With Helianthus annuus And Its Effect On Coal Bed Methane Produced Water</i>	12th grade La Veta

Society for Advancement of Chicanos and Native Americans in Science

Reno Tsosie \$25 Cortez Middle School <i>Cultural Relevance In The Navajo Context</i>	8th grade Cortez
Dani Gonzales \$50, one year society membership Grand Valley High School <i>The Effect An Organic Diet Has On Health Related Quality Of Life</i>	11th grade Parachute

Society for Mining, Metallurgy and Exploration, Colorado Section

Kerry Betz plaque, \$50 Summit Middle School <i>Something's Decaying In My Basement</i>	8th grade Boulder
Rachel Washam plaque, \$100 St. John the Evangelist School <i>Hardened Without Heat</i>	8th grade Loveland
Eric Keeling plaque, \$50 La Veta Jr/Sr High School <i>A Study On Rhizofiltration With Helianthus annuus And Its Effect On Coal Bed Methane Produced Water</i>	12th grade La Veta
Patrick Martin plaque, \$100 Canon City High School <i>Environmental Repercussions In Fremont County</i>	12th grade Canon City

Society of Manufacturing Engineers, Northern Colorado, Chapter 354

Keith Vieweg certificate, recognition by Chapter 354, US savings bond Monte Vista On Line Academy <i>Cooling Results: The Effect Of Temperature On The Warp Of Plastic In Manufacturing</i>	12th grade Monte Vista
Mandi Loucks certificate, recognition by Chapter 354, US savings bond Grand Junction High School <i>Should Hybrids Fly?</i>	12th grade Grand Junction

Society of Women Engineers Rocky Mountain Section

Emily Sandner certificate, \$50 St. Columba School <i>Oil; Fact Or Friction - Synthetic vs Petroleum</i>	6th grade Durango
Ashlan Hren Arianna Vierczhalek certificate, \$75 Lake County Middle School <i>What About the Brakes?!!</i>	8th grade 8th grade Leadville
Vicky Li certificate, \$50 Fairview High School <i>Grating-Stabilized Diode Lasers For Cooling Sr-87 Atoms</i>	11th grade Boulder
Mandi Loucks certificate, \$75 Grand Junction High School <i>Should Hybrids Fly?</i>	12th grade Grand Junction

Soil and Water Conservation Society Colorado Chapter

Hannah Ekblad certificate, ribbon, \$25 Blevins Junior High School <i>The Effect Of Recycled Newspaper On Pea Germination In A Heavy Clay Soil</i>	8th grade Fort Collins
Brooke Grissom certificate, ribbon, \$50 Fowler Junior High School <i>Soil Erosion: A Growing Problem</i>	8th grade Fowler
Grant Slinger certificate, ribbon, \$25 Stratton High School <i>Effects Of Soil Type On Groundwater Contamination</i>	10th grade Stratton
Eric Keeling certificate, ribbon, \$50 La Veta Jr/Sr High School <i>A Study On Rhizofiltration With Helianthus annuus And Its Effect On Coal Bed Methane Produced Water</i>	12th grade La Veta

The International Society for Optical Engineering

Lauren Adlhoch \$100 St. John the Evangelist School <i>Can I Measure The Height Of The Moon's Mountains And The Depths Of Its Craters?</i>	7th grade Loveland
Matt Wenger \$50 Doherty High School <i>Brillouin Light Scattering</i>	12th grade Colorado Springs
Tim Schneider \$100 Durango High School <i>Photonics</i>	11th grade Durango

Appendix 2

United States Department of Commerce

Stephen Wilfong 12th grade
 opportunity for summer employment with Department of Commerce with possibility for future continuing employment
 Moffat High School Moffat
Return Of The Deadly Snow: A Study Of Avalanche Risk Based On Layers And Types Of Snow

Eric Keeling 12th grade
 alternate for an opportunity for summer employment with Department of Commerce with possibility for future continuing employment
 La Veta Jr/Sr High School La Veta
A Study On Rhizofiltration With Helianthus annuus And Its Effect On Coal Bed Methane Produced Water

United States Geological Survey

Rachel Beverlin 7th grade
 reference book, mineral sample
 Dolores Middle School Dolores
Geyser Spring: Characteristics Of Colorado's Only Geyser

Alex Schnaderbeck 11th grade
 reference book, mineral sample
 Sargent Jr/Sr High School Monte Vista
Shape Up: The Relationship Between Trout Habitat And Differently Shaped Rocks.

University of Colorado Health Sciences Center Medical Scientist Training Program

Ashley Pollock 12th grade
 \$50
 Wiggins Jr/Sr High School Wiggins
Tissue Distribution And Mitochondrial Function Of The Parkinson's Disease Related Protein DJ-1

Antonia Lira 9th grade
 \$50
 Lamar High School Lamar
Does Sun Guard Detergent Wash An Invisible Shield Into Clothing To Reduce Ultraviolet Light?

Zonta Club of Boulder County Amelia Earhart Award

Elizabeth Napier 6th grade
 \$100
 Escalante Middle School Durango
Flying High

Scholarships

Adams State College

Katlin Hornig 10th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Sargent Jr/Sr High School Monte Vista
The Equine Emotional And Physical Behavior Connection

Dustin Brady 11th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Wray High School Wray
Beats Of The Brain

Sarah Cummings 10th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Brush High School Brush
Leaching Of Metals From Cookware By Acidic

Bailey Jones 12th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Canon City High School Canon City
Which Rock, What Time, Which Fossil Can You Find?

Seth Brouwer 10th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Arriba-Flagler School Flagler
What's The Coolest Oil

Keith Vieweg 12th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Monte Vista On Line Academy Monte Vista
Cooling Results: The Effect Of Temperature On The Warp Of Plastic In Manufacturing

Alex Schnaderbeck 11th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Sargent Jr/Sr High School Monte Vista
Shape Up: The Relationship Between Trout Habitat And Differently Shaped Rocks.

Adam Goss 11th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Brush High School Brush
Computer Simulation Of Erosion Patterns

Jennifer Manfredo 9th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Canon City High School Canon City
Auditory Processing: Can You Interpret It Now?

Sarah Gunkel 10th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Springfield Jr/Sr High School Springfield
Bacterial Party

Tucker Dunivan 11th grade
 scholarships valued as the equivalent to one-year resident tuition and fees
 Walsh Jr/Sr High School Walsh
Stress Test, Will Stress Cause Whiskers?

Appendix 2

Haydn Christensen 10th grade
scholarships valued as the equivalent to one-year resident tuition
and fees

Monte Vista High School Monte Vista
The Effects Of Disease And Damage On Malt Friability

Colorado School of Mines

Austin Nichols 11th grade
50% resident tuition, four-year scholarship

Brush High School Brush
The Controlled Growth Of Penitente Structures

Alex Schnaderbeck 11th grade
50% resident tuition, four-year scholarship

Sargent Jr/Sr High School Monte Vista
*Shape Up: The Relationship Between Trout Habitat And Differ-
ently Shaped Rocks.*

Daniel Smith 11th grade
50% resident tuition, four-year scholarship

Herzl Rocky Mountain Hebrew Denver
Reading Fingers: A System For Automatic Guitar Composition

Chelsea Oden 11th grade
50% resident tuition, four-year scholarship

Monte Vista High School Monte Vista
*A Wrinkle In Prime: An Investigation Of Prime Properties In A
Four-Dimensional Sieve Of Eratosthenes*

Atticus Bergman 11th grade
50% resident tuition, four-year scholarship

Fairview High School Boulder
That Flocking Convection

Andrew Flynn 11th grade
Wil Cocks 11th grade

50% resident tuition, four-year scholarship

Palmer High School Colorado Springs
*Determining The Point Of Entropy: Building A Lorenzian Wa-
terwheel*

Intel Foundation

Ryan Patterson Scholarship

Amanda Rock 12th grade
certificate, \$2,000 scholarship to be used at a college of student's
choice

Wray High School Wray
Biofuels: Oily Alternatives?

Syracuse Pulp and Paper Foundation

Keith Vieweg 12th grade
\$17,000 scholarship to State University of New York - College
of Environmental Science and Forestry

Monte Vista On Line Academy Monte Vista
*Cooling Results: The Effect Of Temperature On The Warp Of
Plastic In Manufacturing*

University of Colorado - Boulder

College of Engineering and Applied Science Scholar- ships

Bailey Leppek 11th grade
Derek Kramer 11th grade

\$1,500/year scholarship for four years
Cherry Creek High School Greenwood Village
*Ethanol Synthesis From Different Biodegradable Household
Waste Products*

Maxwell Wheeler 12th grade
\$2,500/year scholarship for four years

Nederland Jr/Sr High School Nederland
*A New Frequency For Help! Exploring Propagation Character-
istics Of The 500 kHz Frequency*

Chelsea Oden 11th grade
\$4,000/year scholarship for four years

Monte Vista High School Monte Vista
*A Wrinkle In Prime: An Investigation Of Prime Properties In A
Four-Dimensional Sieve Of Eratosthenes*

Science Service

American Meteorological Society

Mariah Hanley 12th grade
certificate

Cherry Creek High School Greenwood Village
*Correlations Between Snow Contamination And The Air Quality
Index*

Austin Nichols 11th grade
certificate

Brush High School Brush
The Controlled Growth Of Penitente Structures

Stephen Wilfong 12th grade
certificate

Moffat High School Moffat
*Return Of The Deadly Snow: A Study Of Avalanche Risk Based
On Layers And Types Of Snow*

American Psychological Association

Rachel Wynn 11th grade
certificate

Coronado High School Colorado Springs
Social Cognition And Working Memory

Discovery Channel

Discovery Channel Young Scientist Challenge

Erik Schnaderbeck 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition

Sargent Jr/Sr High School Monte Vista
*What Water Characteristics Affect Aquatic Invertebrates At
Tailwater Fisheries*

Diane Schulze 7th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition

Cherry Creek Challenge School Denver
Human Embarrassment

Appendix 2

Ambrose Soehn certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade	Nakayla Lestina certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade
Summit Middle School <i>Natural vs. Synthetic: Polymers In Today's World</i>	Boulder	Dove Creek Middle School <i>Biological Control Of Canada Thistle - Analyzing Three Natural Insect Enemies</i>	Dove Creek
Colin Mummery certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade	Reno Tsosie certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade
St. Columba School <i>Ascent From The Deep</i>	Durango	Cortez Middle School <i>Cultural Relevance In The Navajo Context</i>	Cortez
Alex Nickell certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade	Jordan Lestina certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade
St. John the Evangelist School <i>Can A Shroud Increase The Electrical Output Of A Wind Turbine?</i>	Loveland	Dove Creek Middle School <i>L-Ascorbic Acid Analyzing Foods By Titration Phase 2, Quantifying The Effects Of Heat & Cold On Vitamin C</i>	Dove Creek
Nathan Weeks certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade	Tawney Bleak certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade
The Classical Academy <i>Sound Barrier Designs</i>	Colorado Springs	Otis Jr/Sr High School <i>S.O.S. Save Our Soil</i>	Otis
Alexandra Proietti certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade	Natashia Barker certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade
Holy Family Catholic School <i>Fuel Of The Future, Toasty With Tamarisk</i>	Grand Junction	Haxtun Middle School <i>Burn Or Not To Burn: That Is The Question</i>	Haxtun
Garrett Glissmann certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade	Charles Bergren certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade
Peak to Peak Charter School <i>Identifying Minutiae Within A Fingerprint</i>	Lafayette	Southern Hills Middle School <i>AM Loop Antenna Design</i>	Boulder
Alexandria Farnsworth certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade	Lorne Muir II certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade
Paonia Jr/Sr High School <i>Stop! Type 2 Diabetes In Adolescents</i>	Paonia	The Classical Academy <i>Hydrophobic Soil Rehabilitation</i>	Colorado Springs
Ashleigh West certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade	Rahul Shankar certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade
West Jefferson Middle School <i>The Use Of UV Light To Sterilize Leafy Vegetables As A Means Of Improving Food Safety</i>	Conifer	Mountain Ridge Middle School <i>A Software Tool To Calculate Alignment Of Nucleotide Sequences To Classify The Cryptoprocta Ferox</i>	Colorado Springs
Kerry Betz certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade	Russell Tappy certificate, lapel pin, nomination to enter the DCYSC national competition	7th grade
Summit Middle School <i>Something's Decaying In My Basement</i>	Boulder	Merino Jr/Sr High School <i>Performance Enhancers, Are They In You? The Effect Of Performance Enhancers On G. portentosa</i>	Merino
Andrew Theobald certificate, lapel pin, nomination to enter the DCYSC national competition	8th grade	Sara Volz certificate, lapel pin, nomination to enter the DCYSC national competition	6th grade
North Middle School <i>Windy Gardens</i>	Colorado Springs	North Middle School <i>What Common Substances Best Kill Bacteria On The Skin?</i>	Colorado Springs

Appendix 2

Rachel Washam 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition

St. John the Evangelist School Loveland
Hardened Without Heat

Justin Lewton 7th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition

Weld Central Junior High Keenesburg
The Green Thumb Problem

Herbert Hoover Presidential Library Association

Herbert Hoover Young Engineer Award

Daniel Smith 11th grade
certificate, medallion

Herzl Rocky Mountain Hebrew Denver
Reading Fingers: A System For Automatic Guitar Composition

Intel Corporation

Intel Excellence in Computer Science Award

Tommaso Buvoli 12th grade
certificate, \$200 (to be mailed in July)

Fairview High School Boulder
Machine Learning And Data Classification

Mu Alpha Theta

Chelsea Oden 11th grade
certificate

Monte Vista High School Monte Vista
*A Wrinkle In Prime: An Investigation Of Prime Properties In A
Four-Dimensional Sieve Of Eratosthenes*

National Society of Professional Engineers

Daniel Smith 11th grade
certificate, lapel pin, one-year subscription to
Engineering Times

Herzl Rocky Mountain Hebrew Denver
Reading Fingers: A System For Automatic Guitar Composition

Ricoh

Ricoh Sustainable Development Award 2007

Alex Nickell 7th grade
certificate, entry into a drawing for a Ricoh digital camera

St. John the Evangelist School Loveland
*Can A Shroud Increase The Electrical Output Of A Wind Tur-
bine?*

Scientific American

Chelsea Oden 11th grade
certificate, one-year subscription to Scientific American

Monte Vista High School Monte Vista
*A Wrinkle In Prime: An Investigation Of Prime Properties In A
Four-Dimensional Sieve Of Eratosthenes*

Atticus Bergman 11th grade
certificate, one-year subscription to Scientific American

Fairview High School Boulder
That Flocking Convection

Daniel Smith 11th grade
certificate, one-year subscription to Scientific American

Herzl Rocky Mountain Hebrew Denver
Reading Fingers: A System For Automatic Guitar Composition

Bailey Leppek 11th grade

Derek Kramer 11th grade

certificate, one-year subscription to Scientific American

Cherry Creek High School Greenwood Village
*Ethanol Synthesis From Different Biodegradable Household
Waste Products*

Society for In Vitro Biology

Young Kim 11th grade
certificate

Cherry Creek High School Greenwood Village
Chlorophyll As A Sunscreening Agent

United States Department of Commerce/NOAA

Taking the Pulse of the Planet Award

Gwyneth Glissmann 10th grade
certificate, medallion

Peak to Peak Charter School Lafayette
Mitigating Global Warming By Utilizing Albedo Geoengineering

United States Department of Health & Human

Services

US Public Health Service Challenge

Antonia Lira 9th grade
certificate

Lamar High School Lamar
*Does Sun Guard Detergent Wash An Invisible Shield Into Cloth-
ing To Reduce Ultraviolet Light?*

United States Metric Association

David Wu 10th grade
certificate

Cherry Creek High School Greenwood Village
Analyzing Hydrogen Storage In A Mg-Al-Zn Alloy

Water Environment Federation

Stockholm Junior Water Prize

Evan Duggan 12th grade
Certificate, nomination for the SJWP state competition, mouse
pad

Cherry Creek High School Greenwood Village
*Removal Of Targeted Organic Compounds From Municipal
Waste Water*

Yale Science & Engineering Association

Atticus Bergman 11th grade
certificate, pewter medallion (to be mailed in August)

Fairview High School Boulder
That Flocking Convection

Appendix 3
2006/2007 Expense Report
September 1, 2006 – August 31, 2007

Category Descriptions	Budget	Actual	Difference
INCOME			
Sponsorships	\$27,100.00	\$28,600.00	\$1,500.00
Contributions	\$3,175.00	\$1,942.32	(\$1,232.68)
In-Kind	\$8,400.00	\$8,187.21	(\$212.79)
Registrations	\$11,340.00	\$11,025.00	(\$315.00)
Grants	\$9,600.00	\$7,375.00	(\$3,125.00)
General Income			
<i>Interest</i>	\$500.00	\$688.61	\$148.06
<i>Sales</i>	\$1,000.00	\$1,115.00	\$115.00
<i>RSF Outreach Funds</i>	\$0.00	\$0.00	\$0.00
<i>Pioneers of Science Awards</i>	\$360.00	\$510.00	\$150.00
<i>Teacher of the Year Award</i>	<u>\$3,000.00</u>	<u>\$3,000.00</u>	<u>\$0.00</u>
TOTAL General Income	\$4,860.00	\$5,313.61	\$413.06
TOTAL INCOME	\$65,375.00	\$62,443.14	(\$2,072.41)
EXPENSES			
Awards Ceremony			
Cash Awards	\$10,880.00	\$10,860.00	\$20.00
Other Awards	\$6,350.00	\$4,860.83	(\$510.83)
Photos	\$250.00	\$153.79	\$45.60
Press Release	\$400.00	\$480.00	(\$80.00)
Program	\$300.00	\$372.33	(\$72.33)
Room Rental	<u>\$600.00</u>	<u>\$292.90</u>	<u>\$307.40</u>
TOTAL Awards Ceremony	\$18,780.00	\$17,019.85	\$1,760.15
CSSF, Inc. Board			
Communications	\$505.00	\$446.14	\$58.86
Equipment	\$0.00	\$0.00	\$0.00
Meetings	\$1,200.00	\$839.91	\$360.09
Operations	\$7,375.00	\$7,548.82	(\$78.82)
Services	\$200.00	\$350.00	(\$150.00)
Supplies	<u>\$100.00</u>	<u>\$908.02</u>	<u>(\$508.02)</u>
TOTAL CSSF, Inc. Board	\$9,380.00	\$10,092.89	(\$712.89)
Finalists			
Activities	\$2,200.00	\$2,147.82	\$52.18
Publications	\$1,900.00	\$1,033.61	\$866.39
Registration	\$4,900.00	\$8,289.17	(\$3,389.17)
Room Rental	\$675.00	\$723.00	(\$48.00)
Transportation	<u>\$950.00</u>	<u>\$1,046.50</u>	<u>(\$96.50)</u>
TOTAL Finalists	\$10,625.00	\$13,240.10	(\$2,615.10)

Appendix 3
2006/2007 Expense Report
September 1, 2006 – August 31, 2007

Category Description	Budget	Actual	Difference
ISEF			
Affiliation	\$500.00	\$500.00	\$0.00
Travel	<u>\$5,860.00</u>	<u>\$4,640.06</u>	<u>\$1,219.94</u>
TOTAL ISEF	\$6,360.00	\$5,139.99	\$1,220.01
Judging			
Communications	\$1,000.00	\$775.64	\$224.36
Room Rental	\$120.00	\$95.00	\$25.00
Supplies	\$500.00	\$483.65	\$16.35
Thank Yous	\$2,850.00	\$3,198.87	(\$348.87)
Travel	<u>\$250.00</u>	<u>\$0.00</u>	<u>\$250.00</u>
TOTAL Judging	\$4,720.00	\$4,553.16	\$166.84
Outreach	\$1,000.00	\$879.60	\$120.40
RSF Outreach	\$0.00	\$0.00	\$0.00
CSEF Expenses			
Adult Sponsors	\$350.00	\$513.82	(\$163.82)
Advisory Council	\$50.00	\$55.04	(\$5.04)
Fund Raising	\$200.00	\$109.03	\$52.89
Personnel	\$7,110.00	\$7,685.20	(\$575.20)
Publicity	\$200.00	\$13.23	\$186.77
Regional Fair Directors	\$300.00	\$312.67	(\$12.67)
Supplies	\$300.00	\$274.62	\$25.83
Volunteers	<u>\$1,425.00</u>	<u>\$1,553.65</u>	<u>(\$118.65)</u>
TOTAL CSEF Expenses	\$9,935.00	\$10,517.26	(\$582.26)
SRC/Display and Safety			
Communications	\$250.00	\$119.84	\$130.16
Meetings	\$600.00	\$712.63	(\$112.63)
Supplies	<u>\$150.00</u>	<u>\$138.89</u>	<u>\$11.11</u>
TOTAL SRC/Display and Safety	\$1,000.00	\$971.36	\$28.64
TOTAL EXPENSES	\$61,800.00	\$64,414.21	(\$614.21)
OVERALL TOTAL	\$3,575.00	\$28.93	