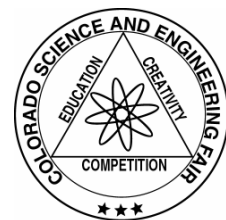


Colorado State Science Fair, Inc.

2006 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, 2006
Colorado State Science Fair, Inc.
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Courtney Butler, (970) 491-7716

2006 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 Behavioral & Social Sciences; Botany; Chemistry; Earth and Space Sciences; Engineering; Environmental Sciences; Mathematics and Computer Sciences; Medicine & Health; Microbiology; Physics; and Zoology – 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).

2006 COLORADO SCIENCE AND ENGINEERING FAIR

The fifty-first Colorado Science and Engineering Fair was held at Lory Student Center on the Colorado State University campus on April 6 - 8, 2006.

This year, CSEF winners were chosen from among 283 projects represented by 317 finalists from 96 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 1,000 people attended the Awards Ceremony this year.

The 2006 Colorado Science and Engineering Fair had 26 sponsors. Sponsors included 8 Platinum Sponsors (providing over \$2,500 of support), 7 Gold Sponsors (\$1,000 – \$2,500 of support each), and 11 Regular Sponsors (\$500 - \$750 of support each). In addition, there were 15 Financial Contributors (less than \$500 each). Also, several individuals donated through the Denver Combined Federal Campaign.

Scholarships from Adams State College, University of Colorado at Boulder, Colorado State University-Pueblo, and Colorado School of Mines were also presented. Adams State College awarded eleven one-year full scholarships for resident tuition and fees. The Colorado School of Mines awarded four four-year half resident tuition scholarships.



The University of Colorado at Boulder awarded four partial scholarships. 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 Len Baron on “Science, Fairy Tales and Rhythm.”

Len Barron began college when he was thirty years old, after years of hauling scrap iron, selling magazines and driving a cab.

Since graduating from the University of Colorado in 1967 and Antioch-Putney Graduate School in 1969, he has been engaged in various education projects that include founding and directing a school for high school drop-outs and teaching at the University of Colorado, San Diego State University, Prescott College in Arizona, and Dull Knife Memorial College on the Northern Cheyenne Reservation in Montana.

He has written and directed six theatre pieces, including Walking Lightly . . . A Portrait of with which he has been touring the country since September of 1989. During that time, he has also given workshops in schools at all levels that draw attention to the elemental principles that govern the thought and practice of Einstein. Those principles are fairness, beauty, and playfulness.

(See Appendix 1 – 2006 CSEF Schedule)

2006 COLORADO SCIENCE AND ENGINEERING FAIR TOP AWARDS

The top Senior Division individual project exhibitor of the 51st 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 **Chris Messick**, Sargent Jr/Sr High School, Monte Vista, grade 11, for the project *Point and Click, Literally: Phase II*. Second place for best individual project, and also a winner of an all-expense paid trip to compete at the Intel ISEF was **Malcolm Young**, Centaurus High School, Lafayette, grade 11, for the project *Coral Bleaching Adaptation*. Awarded third place for best individual project was **Lindsey Rugh**, Hotchkiss High School, Hotchkiss, grade 9, for the project *Fire On The Mountain*. Lindsey was able to compete at the Intel ISEF through her regional science fair. The first place Senior Division team project and winners of an all-expense paid trip to compete in the Intel ISEF were **Max Krakauer** and **Alex Ruch**, Palmer High School, Colorado Springs, grade 10, for the project *Lighting A Fire: A Study Of The Fuels Involved In The Hayman Fire*.

The winner of the Ralph F. Desch Memorial Technical Writing Award was **Meredith MacGregor** from Fairview High School, Boulder, grade 11, for the project *Cracking The Brazil Nut Effect*.

The winner of the Senior Division Student Choice Award was **Robert Glissmann & Gwenyth Glissman**, Peak to Peak Charter School, Lafayette, grades 12 & 9, for the project *Using Eulerian Models To Determine Initial Conditions Of Severe Weather*. The Junior Division Student Choice winner was **Caitlin Reeves**, Cortez Middle School, Cortez, grade 8, for the project *Contagious Laughter*.

The winner of the Poster Art Contest was **Boya Liu**, Fairview High School, Boulder.

The winner of the Lockheed Martin CSEF Teacher of the Year Award was **T J Donahue** of Cherry Creek High School, Greenwood Village. Dr. Donahue received a \$3,000 grant to use towards scientific research in his 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:

Reno Tsosie, Cortez Middle School in Cortez, grade 7; **Lilith Jacobs**, Bromley East Charter School, Brighton, grade 7; **Antonia Lira**, Lamar Middle School, Lamar, grade 8; **Kevin Harris**, Wiggins Jr/Sr High School, Wiggins, grade 7; **Kailin Hanenburg**, The Classical Academy, Colorado Springs, grade 8; **Noah Fischer**, St. Columba School, Durango, grade 8; **Buddy Watson**, Trinity Lutheran School, Fort Morgan, grade 7; **Bess Boucher**, North Middle School, Colorado Springs, grade 7; **Monica Brandhuber**, Casey Middle School, Golden, grade 6; **Shawn Guice**, Miller Middle School, Durango, grade 6; **Bethany Maxwell**, Dolores Middle School, Dolores, grade 6.



2006 COLORADO SCIENCE AND ENGINEERING FAIR

SCHOLARSHIP AWARDS

ADAMS STATE COLLEGE

Melanie Twiss, Canon City High School, Canon City, grade 12, for the project *Later-WHO-WHAT-HOW MANY-ality*.

Nataara Tamada, Sierra Grande High School, Blanca, grade 9, for the project *Green, Greener, Greenest: Comparing Greening Within A Potato Variety*.

Lena Martin, Limon High School, Limon, grade 11, for the project *Electrochemical Cells vs Battery*.

Chris Twombly, Conifer High School, Conifer, grade 11, for the project *The Mystery Of The Teepee Buttes*.

Eric Keeling, La Veta Jr/Sr High School, La Veta, grade 11, for the project, *Underwater Structures As A Means Of Mitigating Wave Inundation*.

Tyler Keck, Monte Vista High School, Monte Vista, grade 12, for the project *Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?*

Chelsea Oden, Monte Vista High School, Monte Vista, grade 10, for the project *Pursuing Patterns In Primes, Face III: An Investigation Of Prime Properties In A Three-Dimensional Sieve Of Crosthenes*.

Richelle Fritzler, Merino Jr/Sr High School in Merino, grade 10, for the project *Sick From Non-Stick? A Study Done With Polytetrafluoroethylene And Caenorhabditis elegans*.

Leslie Hase, Merino Jr/Sr High School, Merino, grade 11, for the project *An Unlikely Weapon Against Bacteria: Bacteriophage Therapy As An Alternative To Traditional Treatment*.

Cesar Garcia, Walsh Jr/Sr High School, Walsh, grade 11, for the project *Insulation: DO You Dress Right?*

Jessica Haugan, Sargent High School, Monte Vista, grade 9, for the project *Grass vs Grain: A Study In The Connection Between IMF And Omega-3 In Beef*.

Bailey Jones & Patrick Martin, Canon City High School, Canon City, grade 11, for the project *What Is The Radiation Like In Canon City?*

COLORADO SCHOOL OF MINES

Chris Twombly, Conifer High School, Conifer, grade 11, for the project *The Mystery Of The Teepee Buttes*.

Chris Messick, Sargent High School, Monte Vista, grade 11, for the project *Point And Click, Literally: Phase II*.

Diana Qiu, Palmer High School, Colorado Springs, grade 11, for the project *Liquid Crystals*.

Daniel Craverio de Sa, Cherry Creek High School, Greenwood Village, grade 11, for the project *The Effects Of Ultraviolet-B Radiation On The Nitrogen Cycle In A Marine Habitat*.

COLORADO STATE UNIVERSITY - PUEBLO

David Strouse, Cherry Creek High School, Greenwood Village, grade 21, for the project *Modern Safety Applications Of Micro-Electronic-Mechanical Systems (MEMS)*.

Amit Halevi, Fairview High School, Boulder, grade 12, for the project *Neurite Extension In PC12 Cells Plated To Collagen-Doped PEG Hydrogel*.

Tyler Keck, Monte Vista High School, Monte Vista, grade 12, for the project *Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?*

UNIVERSITY OF COLORADO

Chelsea Oden, Monte Vista High School, Monte Vista, grade 10, for the project *Pursuing Patterns In Primes, Face III: An Investigation Of Prime Properties In A Three-Dimensional Sieve Of Crosthenes*.

Forest Friesen, Palmer High School, Colorado Springs, grade 11, for the project *Design And Construction Of A Dynamic Artificial Neural Network*.

Chris Messick, Sargent High School, Monte Vista, grade 11, for the project *Point And Click, Literally: Phase II*.

Skylar Anderson, Palmer High School, Colorado Springs, grade 9, for the project *What Is Your Music Trying To Tell You? Using Fractals To Compose And Encrypt Music*.

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 2006 winner was **Robin Blenden**, Monte Vista High School, Monte Vista, grade 12, for the project *The Effects Of Anti-Gel Additives On Biodiesel And Petroleum Diesel Blends*.

(See Appendix 2 – CSEF Press Release)

2006 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 57 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 57th Intel ISEF held in Indianapolis, IN May 7 - 12, 2006.

GRAND AWARDS

Meredith MacGregor from Boulder, CO won the Intel Foundation Young Scientist Award of a \$50,000 scholarship that she can use at the university of her choosing. This award is given to the top three projects competing at the Intel ISEF each year. Meredith also won \$8,000 and a notebook computer for her Top of Category and 1st Place awards in the category of Physics.

Chris Messick from Monte Vista, CO won \$1,500 (2nd Place) in Engineering.

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

Lalith Polepeddi & Michael Polmear from Englewood, CO won \$1,500 (2nd Place) in the team category.

Malcolm Young from Lafayette, CO won \$1,000 (3rd Place) in Zoology.

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

Kaitlyn Lingus from Branson, CO won \$500 (4th Place) in Botany.

Matt Zubieli from Monument, CO won \$500 (4th Place) in Engineering.

Tyler Keck from Monte Vista, CO won \$500 (4th Place) in Environmental Sciences.

Max Krakauer & Alex Ruch from Colorado Springs, CO won \$500 (4th Place) in the team category.

SPECIAL AWARDS

Lalith Polepeddi & Michael Polmear won \$50 (Honorable Mention) from the American Association for Clinical Chemistry.

Meredith MacGregor won \$2,000 (2nd Place), from the American Association of Physics Teachers and the American Physical Society. She also received a tuition scholarship in the amount of \$50,000 from Florida Institute of Technology. Meredith has also been invited to attend the Taiwan International Science Fair in February of 2007. She also received a tuition scholarship in the amount of \$20,000 from Oregon State University.

Robert Glissmann & Gwentyth Glissmann from Boulder, CO won \$1,000 (1st Place) from the American Meteorological Society.

Michaela Kaiser from Monte Vista, CO won \$500 (3rd Place) from the American Phytopathological Society. Michaela also won \$1,000 (1st Place) from the American Society for Horticulture Science.

Chris Messick received a tuition scholarship in the amount of \$105,000 from Drexel University. Chris also won \$150 (2nd Place) from Patent and Trademark Office Society.

GOVERNMENT AWARDS

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

Lalith Polepeddi & Michael Polmear won an \$8,000 scholarship from the Office of Naval Research on behalf of the US Navy and Marine Corps.

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

Robert Glissmann & Gwentyth Glissmann won a tuition scholarship in the amount of \$20,000 that can be used at a university of their choosing from the Department of Homeland Security, University Programs Office.

Matt Zubieli won a tuition scholarship amount of \$20,000 that can be used at a university of his choosing from the Department of Homeland Security, University Programs Office.

Malcolm Young received a choice of a fully paid internship at a NOAA research lab, an opportunity to work with researchers on a NOAA vessel at sea, or a research field experience at a National Marine Sanctuary. A stipend, travel and housing allowance was provided.

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

College of Natural Sciences

Office of the Provost

CSMATE

Intel Foundation

Lockheed Martin Space Science Systems

LSI Logic

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

Kodak Colorado Division

La Veta Public Schools

El Pomar Youth in Community Services

Seagate Technologies

University of Colorado

College of Engineering and Applied Science



REGULAR SPONSORS

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

Anheuser-Busch, Inc.

Canberra Industries

Colorado Engineering Council

Decisioneering, Inc.

IEEE/LEOS

ICAT Managers

National Renewable Energy Laboratory

Norgren

San Luis Valley Regional Science Fair, Inc.

US Department of Commerce/NOAA

CONTRIBUTORS

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

Edmon and Lucy Adams

Sam and Eileen Bartlett

Eric & Lisa Burt

Don Gooding

Gina Holland

Robert Lampereur

Marjorie McLellan

Dr Robert Morrow

Pro Sports

Rocky Mountain Bioengineering
Symposium

Sundyne Corporation

United Building Centers

United States Geological Survey

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

San Luis Valley Regional Science Fair, Inc.
David Holm - President
Regular Member since 1997

Canberra Industries
Mike Bemski – Vice President
Regular Member since 2002

National Renewable Energy Laboratory
Bonnie Hames – Secretary
Regular Member since 1999

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Regular Member since 2001

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Regular Member since 2000

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Regular Member since 2006

REGIONAL FAIR DIRECTORS

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Pikes Peak Regional Science Fair
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San Luis Valley Regional Science Fair
Lucy Adams

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Terri Lira and Robin Staker

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Western Regional Science Fair
Stephanie Matlock-Cooley and Rob Robison

MEMBERS AT LARGE

Judy Cara	Doug Everett
Janet Forinash	Steve Iona
Charles Johnson	John McConnell
Beverly Meier	Candus Muir
David Pfuhl	Penny Propst
Jim Sites	Doug Steward
Laura Ussery	Dan Van Gorp

PAST CSEF DIRECTORS

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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 and Safety

The focus of this committee is to oversee the volunteers who check Finalists' projects for display & 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
51st Annual Colorado Science and Engineering Fair

Lory Student Center

Fair Headquarters: 2nd Floor Lobby

Colorado State University

Thursday, April 6, 2006

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>	
1:45 PM – 2:00 PM	Finalist Orientation Meeting – <i>Mandatory for all exhibitors.</i>	CSU Theater
2:00 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 – 4:30 PM	ISEF Rule Updates for 2007	Room 213/215

Judging Schedule

10:30 AM – 11:00 AM	Grand Awards Judging Captains’ Briefing	La Porte Room
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
12:30 PM – 1:00 PM	Special Awards Judges’ Briefing	Room 228
12:00 PM – 5:00 PM	Judging	Main Ballroom
12:00 – 1:00 PM	<u>Grand Awards Judges only</u> in the exhibit rooms.	
1:00 – 2:00 PM	Special Award Judges may enter the exhibit areas. <u>Judges only</u> in the exhibit rooms.	
2:00 – 5:00 PM	<i>Finalists will be at their exhibits for interviews.</i>	
5:30 PM	Exhibit areas are locked. Final Judging continues. <p style="text-align: center;"><i>No one else is permitted in the exhibit area at this time.</i></p>	

Friday, April 7, 2006

9:00 AM – 5:00 PM	CSEF Open to the Public	Main Ballroom
9:00 AM – 10:00 AM	Guest Speaker: Len Barron – <i>Science, Fairy Tales and Rhythm</i>	CSU Theatre
10:30 AM – 3:30 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	Resurrection Fellowship

Saturday, April 8, 2006

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. <p style="text-align: center;">Finalists must be present to win door prizes!</p>	Main Ballroom
12:00 PM – 1:00 PM	Exhibit Dismantling <p style="text-align: center;">Everything must be out by 1:00 PM.</p>	
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 Indianapolis, IN May 7 - 13, 2006.
 Next year’s Colorado Science and Engineering Fair will be April 5 - 7, 2007.

(Dates are subject to change.)

Appendix 2

**2005 Colorado Science and Engineering Fair
Grand Awards Press Release**

Junior Best Individual Projects

First Place	
Alan Seltzer	8th grade
<i>A Dose Of Detergent And Duckweed</i>	
Summit Middle School	Boulder
Second Place	
Robin Betz	8th grade
<i>Evolving Solutions</i>	
Summit Middle School	Boulder
Third Place	
Emily Schnoor	8th grade
<i>De"gas"enator</i>	
Sargent Junior High School	Monte Vista

Senior Best Individual Projects

First Place	
Chris Messick	11th grade
<i>Point And Click, Literally: Phase II</i>	
Sargent High School	Monte Vista
Second Place	
Malcolm Young	11th grade
<i>Coral Bleaching Adaptation</i>	
Centaurus High School	Lafayette
Third Place	
Lindsey Rugh	9th grade
<i>Fire On The Mountain</i>	
Hotchkiss High School	Hotchkiss

Junior Best Team Projects

First Place	
Brandy Haller	8th grade
Kelsey Martin	8th grade
<i>You Can Crawl, But You Can't Hide: Characterization Of Satellite DNA In The Family Tenebrionidea</i>	
Woodlin School	Woodrow
Second Place	
Amanda Summers	8th grade
Trent Thelen	8th grade
<i>Hurricane Busters</i>	
The Classical Academy	Colorado Springs
Third Place	
Kurt Oleson	7th grade
Michael Sadwith	7th grade
<i>A Lunch Is A Terrible Thing To Waste!</i>	
Stanley British Primary School	Denver

Senior Best Team Projects

First Place	
Max Krakauer	10th grade
Alex Ruch	10th grade
<i>Lighting A Fire: A Study Of The Fuels Involved In The Hayman Fire</i>	
Palmer High School	Colorado Springs
Second Place	
Robert Glissmann	12th grade
Gwyneth Glissmann	9th grade
<i>Using Eulerian Models To Determine Initial Conditions Of Severe Weather</i>	
Peak to Peak Charter School	Lafayette
Third Place	
Michael Polmear	12th grade
Lalith Polepeddi	12th grade
<i>Dystrophic Skeletal Muscle Cell Membranes Patched By Poloxamer 407</i>	
Cherry Creek High School	Greenwood Village

Junior Behavioral & Social Sciences

First Place	
Katy Schneider	6th grade
<i>The Mind's Eye</i>	
Miller Middle School	Durango
Second Place	
Caitlin Reeves	8th grade
<i>Contagious Laughing</i>	
Cortez Middle School	Cortez
Third Place	
Christina Wilkinson	6th grade
<i>Rock'n Rats!</i>	
Discovery Canyon Campus	Colorado Springs
Honorable Mention	
Erin Burke	8th grade
<i>Lexicon Science</i>	
Miller Middle School	Durango
Honorable Mention	
Megan Morgenthaler	8th grade
<i>Is There A Correlation Between Personality And Instrument Selection</i>	
West Jefferson Middle School	Conifer
Team Nomination	
Jace Khosla	8th grade
Jerica Khosla	8th grade
<i>Caffeine's Effect On An Adult</i>	
Roncalli Middle School	Pueblo

Appendix 2

Team Nomination

Kurt Oleson	7th grade
Michael Sadwith	7th grade
<i>A Lunch Is A Terrible Thing To Waste!</i>	
Stanley British Primary School	Denver

Senior Behavioral & Social Sciences

First Place

Rachel Wynn	10th grade
<i>Does Music + Math = More Success?</i>	
Coronado High School	Colorado Springs

Second Place

Melanie Twiss	12th grade
<i>Later-WHO-WHAT-HOW MANY-ality</i>	
Canon City High School	Canon City

Third Place

Amber Harlan	10th grade
<i>Are The Guilty Innocent?</i>	
Monte Vista High School	Monte Vista

Honorable Mention

Rachel Strauch	9th grade
<i>Sense Of Scents</i>	
Flagler Public School	Flagler

Junior Botany

First Place

Alan Seltzer	8th grade
<i>A Dose Of Detergent And Duckweed</i>	
Summit Middle School	Boulder

Second Place

K C Zinn	6th grade
<i>Erwinia On The Eye</i>	
St. Peter's Lutheran School	Monte Vista

Third Place

Doyle Vulcani	7th grade
<i>When Plants Attack</i>	
Our Lady of Fatima School	Lakewood

Honorable Mention

Michael McKenna	6th grade
<i>How Does The Rate Of Transpiration Affect Movement Of Water Through Xylem Tubes Of Vascular Plants?</i>	
St. John the Evangelist Middle School	Loveland

Senior Botany

First Place

Kaitlyn Lingus	10th grade
<i>One "Mite"y Mission: Biological Compensation Suppression Of Convolvulus arvensis Implementing Host-Specific Aceria malherbae Phase II</i>	
Branson School	Branson

Second Place

Michaela Kaiser	11th grade
<i>Verifying Greenhouse Techniques Used To Test Potatoes For Susceptibility To Powdery Scab</i>	
Sargent High School	Monte Vista

Third Place

Kayla Thoma	10th grade
<i>Polyethylene Glycol Affects: Acclimation, Cultured Russet Potato Exposed To Pseudomonas fluorescens</i>	
Woodlin School	Woodrow

Honorable Mention

Ilan Kaye	11th grade
<i>The Relative Effects Of Smoke On The Germination Of Noxious Weed And Native Colorado Plant Species</i>	
Rocky Mountain Hebrew Academy	Denver

Junior Chemistry

First Place

Jordan Lestina	7th grade
<i>L-Ascorbic Acid - Analyzing Food By Titration</i>	
Dove Creek Middle School	Dove Creek

Second Place

Emmie Mediate	7th grade
<i>Color And Chlorine</i>	
The Classical Academy	Colorado Springs

Third Place

Katelyn Yowell	7th grade
<i>Column Chromatography</i>	
Genoa-Hugo School	Hugo

Honorable Mention

Travis Zuniga	8th grade
<i>Egg Eaters</i>	
Roncalli Middle School	Pueblo

Honorable Mention

Joel Lowinger	8th grade
<i>Gas? What's The Alternative?</i>	
Rocky Mountain Hebrew Academy	Denver

Senior Chemistry

First Place

Lisa Grossman	10th grade
<i>UV Aware: The Effectiveness Of Sunscreens In Blocking UVA Light</i>	
Palmer High School	Colorado Springs

Second Place

Robin Blenden	12th grade
<i>The Effects Of Anti-Gel Additives On Biodiesel And Petroleum Diesel Blends</i>	
Monte Vista High School	Monte Vista

Third Place

Daniel Cromer	12th grade
<i>Applications Of A Myoglobin Biosensor Optimized For Cyanide Detection</i>	
Cherry Creek High School	Greenwood Village

Honorable Mention

Michael Lenker	10th grade
<i>Gas In Motion</i>	
Palmer High School	Colorado Springs

Appendix 2

Honorable Mention

Alex West 12th grade
Validation Of A Rapid Cellar Detection Method For 4-ethyl phenol Produced In Red Wine Fermentations
 Conifer High School Conifer

Team Nomination

Max Krakauer 10th grade
 Alex Ruch 10th grade
Lighting A Fire: A Study Of The Fuels Involved In The Hayman Fire
 Palmer High School Colorado Springs

Junior Earth & Space Sciences

First Place

Hannah Piekenbrock 6th grade
Erosion In The Denver Metro Area
 West Jefferson Middle School Conifer

Second Place

Jonathan Witte 8th grade
Impact To Sudden Death
 Littleton Academy Littleton

Third Place

Thomas Roland 8th grade
The Effects Of Particle Size On Settling Rate
 Blevins Junior High School Fort Collins

Honorable Mention

Shelby Campbell 8th grade
Is It All Global Warming Or Do Heat Islands Exist?
 Paonia Junior High School Paonia

Senior Earth & Space Sciences

First Place

Chris Twombly 11th grade
The Mystery Of The Teepee Buttes
 Conifer High School Conifer

Second Place

Stephen Wilfong 11th grade
Deadly Snow
 Moffat High School Moffat

Third Place

Charisma Rascon 10th grade
Cosmic Potholes
 Sierra Grande High School Blanca

Honorable Mention

Bailey Jones 11th grade
 Patrick Martin 11th grade
What Is The Radiation Like In Canon City?
 Canon City High School Canon City

Junior Engineering

First Place

J. Raleigh Burt 8th grade
Deflation Evaluation: Investigating Passive Air Loss From Butyl Bicycle Tubes
 Sargent Junior High School Monte Vista

Second Place

Christopher Krause 8th grade
Caution: Leaky Levees!
 The Classical Academy Colorado Springs

Third Place

Madeline Camp-Drees 7th grade
Snap On Safety Neck Protection
 La Veta Jr/Sr High School La Veta

Honorable Mention

Scott Uhrlich 8th grade
Blowin' In The Wind
 Kinard Junior High School Fort Collins

Honorable Mention

Kendall Wilkins 8th grade
It's Getting Hot In Here
 Yuma Middle School Yuma

Honorable Mention

Daniel Haarbuerger 8th grade
Resource Face-Off: Hydrogen vs. Solar
 Summit Middle School Boulder

Team Nomination

Amanda Summers 8th grade
 Trent Thelen 8th grade
Hurricane Busters
 The Classical Academy Colorado Springs

Senior Engineering

First Place

Chris Messick 11th grade
Point And Click, Literally: Phase II
 Sargent High School Monte Vista

Second Place

Forrest Friesen 11th grade
Design And Construction Of A Dynamic Artificial Neural Network
 Palmer High School Colorado Springs

Third Place

Tim Schneider 10th grade
Running Monoped Robots
 Durango High School Durango

Honorable Mention

Andrew West 10th grade
The Production Of Diesel Fuel From Food Grade Vegetable Oil By A Method Of Catalytic Hydrocracking
 Conifer High School Conifer

Honorable Mention

Matthew Zubiel 10th grade
Indoor Firefighter Location
 Lewis-Palmer High School Monument

Appendix 2

Junior Environmental Sciences

First Place	
Emily Schnoor	8th grade
<i>De"gas"enator</i>	
Sargent Junior High School	Monte Vista
Second Place	
Isaiah Branch-Boyle	7th grade
<i>Solar Integration - The Key To Passive Solar Efficiency</i>	
St. Columba School	Durango
Third Place	
Jacob Kanack	6th grade
<i>Innovative And Insulated</i>	
St. John the Evangelist Middle School	Loveland
Honorable Mention	
Amanda Wilcox	7th grade
<i>Cactus Goo To The Rescue! Does Mucilage Clean Contaminated Water?</i>	
Merino Jr/Sr High School	Merino
Honorable Mention	
Danielle Burke	8th grade
<i>Up, Up, And Away</i>	
Windsor Charter Academy	Windsor
Honorable Mention	
Taylor Graham	6th grade
<i>Train Smoke In Durango: An Epidemiological Study</i>	
Miller Middle School	Durango
Team Nomination	
Matthew Brown	8th grade
Chris Bennett	8th grade
<i>Quality H2O</i>	
Limon Middle School	Limon

Senior Environmental Sciences

First Place	
Tyler Keck	12th grade
<i>Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?</i>	
Monte Vista High School	Monte Vista
Second Place	
D J Horton	11th grade
<i>Biological Control of a Common Corn Criminal Phase III</i>	
Hotchkiss High School	Hotchkiss
Third Place	
Cody Caver	10th grade
<i>Hidden Contamination: An Investigation Of Elevated Sulfate Levels</i>	
Woodlin School	Woodrow
Honorable Mention	
Lesley Petrie	12th grade
<i>A Socioclimatological Analysis Of The Repercussions Of Hurricane Katrina</i>	
Nederland Jr/Sr High School	Nederland

Junior Mathematics & Computer Sciences

First Place	
Robin Betz	8th grade
<i>Evolving Solutions</i>	
Summit Middle School	Boulder
Second Place	
Rahul Shankar	6th grade
<i>To Switch Or Not To Switch</i>	
Mountain Ridge Middle School	Colorado Springs
Third Place	
Shayne Taylor	6th grade
<i>The Birthday Paradox</i>	
Madison Exploratory School	Canon City
Honorable Mention	
Candace White	8th grade
<i>Scienceopoly</i>	
Kinard Core Knowledge School	Fort Collins

Senior Mathematics & Computer Sciences

First Place	
Chelsea Oden	10th grade
<i>Pursuing Patterns In Primes, Face III: An Investigation Of Prime Properties In A Three-Dimensional Sieve Of Crosthenes</i>	
Monte Vista High School	Monte Vista
Second Place	
Andrew Milian	9th grade
<i>Computer Chord Recognition</i>	
Cherry Creek High School	Greenwood Village
Third Place	
John Meluso	9th grade
<i>The Demise Of The File System</i>	
Palmer High School	Colorado Springs
Honorable Mention	
Adam Goss	10th grade
<i>Measuring The Fractal Dimension Of A Cauliflower</i>	
Brush High School	Brush
Honorable Mention	
Gregory Carlson	11th grade
<i>Talent Versus Population</i>	
Canon City High School	Canon City
Team Nomination	
Robert Glissmann	12th grade
Gwyneth Glissmann	9th grade
<i>Using Eulerian Models To Determine Initial Conditions Of Severe Weather</i>	
Peak to Peak Charter School	Lafayette

Junior Medicine & Health

First Place	
Jennifer Manfredo	8th grade
<i>A Dazzling Time With Visual Acuity</i>	
Canon City Middle School	Canon City

Appendix 2

Second Place

Hannah Price 7th grade
Stuck On You
 Sargent Junior High School Monte Vista

Third Place

Kristen Burns 6th grade
Is Cholesterol Level Affected By Different Diets?
 West Jefferson Middle School Conifer

Honorable Mention

Kami Keeling 8th grade
How Theobroma Cacao Affects Blood Pressure Part II
 Ward Middle School Ordway

Honorable Mention

Joel Jakel 7th grade
Which Type Of Tablet Dissolves The Fastest?
 Weld Central Jr/Sr High School Keenesburg

Senior Medicine & Health

First Place

Miri Kornfeld 11th grade
ROS Mediated Activation Of Human Endothelial Cells In Response To HIV-1 Tat Protein
 Rocky Mountain Hebrew Academy Denver

Second Place

Ananth Sridhar 12th grade
Screening For Immune Deficiencies In Newborns Using Microfluidics
 Cherry Creek High School Greenwood Village

Third Place

Stephanie Sandhu 11th grade
Effect Of Myostatin Blockade And Hindlimb Suspension On Leg Muscle Protein Composition
 Boulder High School Boulder

Honorable Mention

Elizabeth O'Donnell 12th grade
Anisomycin Influence On Cell Death In Hippocampus
 Monarch High School Louisville

Honorable Mention

Kelsey Day 10th grade
Bodybuilding Blackworms: The Effects Of Creatine Supplement On Lumbriculus Variegatus
 Lone Star School Otis

Team Nomination

Michael Polmear 12th grade
 Lalith Polepeddi 12th grade
Dystrophic Skeletal Muscle Cell Membranes Patched By Poloxamer 407
 Cherry Creek High School Greenwood Village

Junior Microbiology

First Place

Marlena Widman 8th grade
Grapes In Your Gas Tank
 The Classical Academy Colorado Springs

Second Place

Zane Sternberg 8th grade
Does Phellinus Rimosus Contain Antibacterial Agents?
 La Veta Jr/Sr High School La Veta

Third Place

Alek Blubaum 8th grade
The Germinator: Death Of Escherichia coli
 Littleton Academy Littleton

Honorable Mention

Aarthi Shankar 8th grade
Dirty Laundry Secrets
 Mountain Ridge Middle School Colorado Springs

Senior Microbiology

First Place

Lindsey Rugh 9th grade
Fire On The Mountain
 Hotchkiss High School Hotchkiss

Second Place

Rachel Kelley 10th grade
Bacteriophages As Antibiotics
 Cherry Creek High School Greenwood Village

Third Place

Joey Baum 11th grade
Examining LMP-1 Effects On Tyk2 Phosphorylation In IL-12 Induced Signaling
 Boulder High School Boulder

Honorable Mention

Cory Brownell 10th grade
The Effects Of Fungicides On Early Blight Spores
 Fleming High School Fleming

Honorable Mention

Leslie Hase 11th grade
An Unlikely Weapon Against Bacteria: Bacteriophage Therapy As An Alternative To Traditional Treatment
 Merino Jr/Sr High School Merino

Team Nomination

Paul Macias 10th grade
 Alexis Hepworth 10th grade
Bacteria In Public Restrooms: Harmless Germs Or Health Hazard
 Centennial High School Pueblo

Junior Physics

First Place

Ethan Hahn 8th grade
Ion Lifter Thrust
 The Classical Academy Colorado Springs

Second Place

Allison Bernett 8th grade
Discovering How To Determine The Height From Which A Ball Was Dropped
 Peak to Peak Charter School Lafayette

Appendix 2

Third Place

Conor May 8th grade
Taking The Blow - A Study Of Shock Absorption
 St. Columba School Durango

Honorable Mention

Dane Whicker 8th grade
The Effect Of Household Materials On WiFi Signal Strength
 Blevins Junior High School Fort Collins

Honorable Mention

Abbi Helfer 6th grade
Altitude Adjusted
 North Middle School Colorado Springs

Honorable Mention

Matthew Avischious 7th grade
Winning At The Free Throw Line
 The Classical Academy Colorado Springs

Honorable Mention

Krista Kinkel 8th grade
What's That Burning?
 Flagler Public School Flagler

Honorable Mention

Kate Cedars 8th grade
Burn It Down
 Rocky Mountain Hebrew Academy Denver

Honorable Mention

Hannah Carrese 7th grade
What's Hot; What's Not: Reflections On Three Solar Thermal Principles
 North Middle School Colorado Springs

Team Nomination

Milan Patel 8th grade
 Chris Delgado 8th grade
Kelvin Thunderstrom
 Mountain View Core Knowledge School Canon City

Team Nomination

Zoe Phillip 7th grade
 Ashton Taylor 8th grade
Guns Galore
 Limon Middle School Limon

Senior Physics

First Place

Diana Qiu 11th grade
Liquid Crystals
 Palmer High School Colorado Springs

Second Place

Meredith MacGregor 11th grade
Cracking The Brazil Nut Effect
 Fairview High School Boulder

Third Place

David Miller 12th grade
Characterization Of NiTi Nanoparticles
 Cherry Creek High School Englewood

Honorable Mention

Cesar Garcia 11th grade
Insulation: Do You Dress Right?
 Walsh Jr/Sr High School Walsh

Junior Zoology

First Place

Alex Hetrick 8th grade
This Little Piggy ... Didn't Quite Make It!
 Walsh Jr/Sr High School Walsh

Second Place

Trevar Hobbs 8th grade
The tell Mutation And Its Effects On The Drosophila Melanogaster
 Ward Middle School Ordway

Third Place

James Mauch 8th grade
Moose On The Mesa
 East Middle School Grand Junction

Honorable Mention

Chase Martin 8th grade
Humans Like It... Ants Don't!
 East Middle School Grand Junction

Team Nomination

Brandy Haller 8th grade
 Kelsey Martin 8th grade
You Can Crawl, But You Can't Hide: Characterization Of Satellite DNA In The Family Tenebrionidea
 Woodlin School Woodrow

Senior Zoology

First Place

Malcolm Young 11th grade
Coral Bleaching Adaptation
 Centaurus High School Lafayette

Second Place

Taylor Thompson 10th grade
The Effects Of Ethanol Wet Distrillers Grain In Beef Finishing Diets
 Merino Jr/Sr High School Merino

Third Place

Evan Duggan 11th grade
New Diagnostics For The Twelve World Families Of Solifugidae
 Cherry Creek High School Greenwood Village

Honorable Mention

Ashley Pollock 11th grade
Evaluation Of Primary And Secondary Cells For In Vitro Assessment Of The Foreign Body Response
 Wiggins Jr/Sr High School Wiggins

Appendix 2
2005 Colorado Science and Engineering Fair
Special Awards Press Release

Military

United States Air Force ROTC

Ethan Hahn 8th grade
 padfolio, scientific calculator, certificate, flash drive
 The Classical Academy Colorado Springs
Ion Lifter Thrust

Samantha Ensz 7th grade
 padfolio, scientific calculator, certificate, flash drive
 Hi-Plains Jr/Sr High School Seibert
Are U Stressed?

Robert Glissmann 12th grade
 Gwyneth Glissmann 9th grade
 padfolio, scientific calculator, certificate, flash drive
 Peak to Peak Charter School Lafayette
Using Eulerian Models To Determine Initial Conditions Of Severe Weather

United States Army

Robert Glissmann 12th grade
 Gwyneth Glissmann 9th grade
 certificate, \$50 savings bond
 Peak to Peak Charter School Lafayette
Using Eulerian Models To Determine Initial Conditions Of Severe Weather

Yelena Kovshar 9th grade
 certificate, \$50 savings bond
 Palmer High School Colorado Springs
The Best Way To Purify Water In An Emergency.

Tyler Keck 12th grade
 certificate, \$50 savings bond
 Monte Vista High School Monte Vista
Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?

Rachel Kelley 10th grade
 certificate, \$50 savings bond
 Cherry Creek High School Greenwood Village
Bacteriophages As Antibiotics

Amber Harlan 10th grade
 certificate, \$100 savings bond, silver medallion
 Monte Vista High School Monte Vista
Are The Guilty Innocent?

United States Navy
United States Marine Corps

Jonathan Witte 8th grade
 certificate, medallion
 Littleton Academy Littleton
Impact To Sudden Death

Dane Whicker 8th grade
 certificate, medallion
 Blevins Junior High School Fort Collins
The Effect Of Household Materials On WiFi Signal Strength

Morgan Wilson 6th grade
 certificate, medallion
 Sargent Junior High School Monte Vista
BIO-DIESEL: Don't Just Eat Your Vegetables

Daniel Haarburger 8th grade
 certificate, medallion
 Summit Middle School Boulder
Resource Face-Off: Hydrogen vs. Solar

Madeline Camp-Drees 7th grade
 certificate, medallion
 La Veta Jr/Sr High School La Veta
Snap On Safety Neck Protection

D J Horton 11th grade
 certificate, \$75 gift certificate, medallion
 Hotchkiss High School Hotchkiss
Biological Control of a Common Corn Criminal Phase III

Joey Baum 11th grade
 certificate, \$75 gift certificate, medallion
 Boulder High School Boulder
Examining LMP-1 Effects On Tyk2 Phosphorylation In IL-12 Induced Signaling

Diana Qiu 11th grade
 certificate, \$75 gift certificate, medallion
 Palmer High School Colorado Springs
Liquid Crystals

Organizational

American Association of University Women

Emily Schnoor 8th grade
 \$100
 Sargent Junior High School Monte Vista
De"gas"enator

American Chemical Society
Colorado Local Section

Rafe Schroder 8th grade
 \$100, certificate
 Campo Undivided School Campo
Making It On The Farm

Appendix 2

Heidi Brandenburg 12th grade
 \$100, certificate
 Brush High School Brush
Development Of A Forensics Lab For The Identification Of Inhalants By Gas Chromatography

American Institute of Chemical Engineers Rocky Mountain Section

Shelby Messer 8th grade
 \$75
 Genoa-Hugo School Hugo
Chromatography Of Markers And Powder Drink Mixes

Jordana Lanoue 7th grade
 Alia Buchholz 6th grade
 \$100
 Genoa-Hugo School Hugo
Acid Reactivity

Andrew West 10th grade
 \$75
 Conifer High School Conifer
The Production Of Diesel Fuel From Food Grade Vegetable Oil By A Method Of Catalytic Hydrocracking

McIan Amos 10th grade
 Andrew Mahan 10th grade
 \$100
 Centennial High School Pueblo
Fuel To Air Ratios

American Meteorological Society Denver/Boulder Chapter

Colin Mummery 6th grade
 \$50, certificate
 St. Columba School Durango
Atmospheric Haze In The Four Corners

Robert Glissmann 12th grade
 Gwentyth Glissmann 9th grade
 \$50, certificate
 Peak to Peak Charter School Lafayette
Using Eulerian Models To Determine Initial Conditions Of Severe Weather

American Vacuum Society Rocky Mountain Chapter

Christy Farnsworth 8th grade
 \$50, \$50 matching award to teacher/sponsor
 Paonia Junior High School Paonia
Recycling Fossil Fuel In Semis Through Regenerative Braking

Emily Schnoor 8th grade
 \$100, \$100 matching award to teacher/sponsor
 Sargent Junior High School Monte Vista
De"gas"enator

Forrest Friesen 11th grade
 \$50, \$50 matching award to teacher/sponsor
 Palmer High School Colorado Springs
Design And Construction Of A Dynamic Artificial Neural Network

Meredith MacGregor 11th grade
 \$100, \$100 matching award to teacher/sponsor
 Fairview High School Boulder
Cracking The Brazil Nut Effect

Armbruster Associates

Charles Armbruster Memorial Award

Scott Uhrlich 8th grade
 \$100
 Kinard Core Knowledge Junior Fort Collins
Blowin' In The Wind

Richelle Fritzier 10th grade
 \$100
 Merino Jr/Sr High School Merino
Sick From Non-Stick? A Study Done With Polytetrafluoroethylene And Caenorhabditis elegans

ASM International

Paul Sauter 7th grade
 \$50
 Wiggins Jr/Sr High School Wiggins
Metal + Modifications = Effects On Strength

David Miller 12th grade
 \$75
 Cherry Creek High School Englewood
Characterization Of NiTi Nanoparticles

Association for Women Geoscientists Denver Chapter

Hannah Piekenbrock 6th grade
 \$50, rock sample
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

Sabrina Kennedy 12th grade
 \$50, rock sample
 Centaurus High School Lafayette
The Analyzation Of Coal Creek Dissolved Organic Carbon And UV Absorbances

Cherry Creek Basin Water Quality Authority

Matthew Brown 8th grade
 Chris Bennett 8th grade
 \$50
 Limon Middle School Limon
Quality H2O

Jaron Maxson 11th grade
 \$50
 Canon City High School Canon City
Living Quality In River Water Versus Water That Drains Into The River

Colorado Association of Meat Processors

Jessica Haugen 9th grade
 \$50 savings bond, certificate
 Sargent High School Monte Vista
Grass vs Grain: A Study In The Connection Between IMF And Omega-3 In Beef

Appendix 2

Colorado Association of Science Teachers

Marlena Widman 8th grade
 \$50, certificate
 The Classical Academy Colorado Springs
Grapes In Your Gas Tank

Terry Williams 8th grade
 \$50, certificate
 Mt. Garfield Middle School Clifton
Voices Of Light

David Miller 12th grade
 \$50, certificate
 Cherry Creek High School Englewood
Characterization Of NiTi Nanoparticles

Jessica Haugen 9th grade
 \$50, certificate
 Sargent High School Monte Vista
Grass vs Grain: A Study In The Connection Between IMF And Omega-3 In Beef

The Gerald Gromko Award

Alex West 12th grade
 \$150, plaque
 Conifer High School Conifer
Validation Of A Rapid Cellar Detection Method For 4-ethyl phenol Produced In Red Wine Fermentations

Colorado Biology Teachers' Association

James Mauch 8th grade
 \$75, certificate
 East Middle School Grand Junction
Moose On The Mesa

Kaitlyn Lingus 10th grade
 \$75, certificate
 Branson School Branson
One "Mite"y Mission: Biological Compensation Suppression Of Convolvulus arvensis Implementing Host-Specific Aceria malherbae Phase II

Colorado Dental Association

Hannah Price 7th grade
 \$25 gift card to Target; an electric toothbrush; and alternate for attending the Annual Meeting in
 Steamboat Springs
 Sargent Junior High School Monte Vista
Stuck On You

Christof Bentele 8th grade
 \$50, plaque, invitation to present the projects at the Colorado Dental Association Annual Meeting in Steamboat Springs, June 16, 2006
 Challenger Middle School Colorado Springs
Amphiphilic Toothpaste

David Miller 12th grade
 \$50, plaque, invitation to present the projects at the Colorado Dental Association Annual Meeting in Steamboat Springs, June 16, 2006
 Cherry Creek High School Englewood
Characterization Of NiTi Nanoparticles

Colorado Division of Wildlife

James Mauch 8th grade
 \$50, packet of Colorado Division of Wildlife products
 East Middle School Grand Junction
Moose On The Mesa

Tyler Keck 12th grade
 \$50, packet of Colorado Division of Wildlife products
 Monte Vista High School Monte Vista
Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?

Colorado Environmental Health Association

Isaiah Branch-Boyle 7th grade
 \$50, framed certificate
 St. Columba School Durango
Solar Integration - The Key To Passive Solar Efficiency

Paul Macias 10th grade
 Alexis Hepworth 10th grade
 \$100, framed certificate, invitation to exhibit at the CEHA Annual Educational Conference (\$400 value)
 Centennial High School Pueblo
Bacteria In Public Restrooms: Harmless Germs Or Health Hazard

Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Robert McCall 8th grade
 \$50, certificate
 Lone Star School Otis
Quantification Of Acid Phosphatase In Germinating Panicum Miliaceum

Morgan Wilson 6th grade
 \$50, certificate
 Sargent Junior High School Monte Vista
BIO-DIESEL: Don't Just Eat Your Vegetables

Cody Caver 10th grade
 \$50, certificate
 Woodlin School Woodrow
Hidden Contamination: An Investigation Of Elevated Sulfate Levels

Ilan Kaye 11th grade
 \$50, certificate
 Rocky Mountain Hebrew Denver
The Relative Effects Of Smoke On The Germination Of Noxious Weed And Native Colorado Plant Species

Colorado Geological Survey & Division of Minerals and Geology

Chris Twombly 11th grade
 Colorado Geological Survey gift packet of earth science material
 Conifer High School Conifer
The Mystery Of The Teepee Buttes

Appendix 2

Colorado Science and Engineering Fair

Pioneers of Science

Thomas Roland 8th grade
Colorado Geological Survey gift packet of earth science material
Blevins Junior High School Fort Collins
The Effects Of Particle Size On Settling Rate

Alexandra Proietti 7th grade
\$150
Holy Family Catholic School Grand Junction
We're Hot, Hot, Hot In The Piceance Basin

Tyler Keck 12th grade
\$150
Monte Vista High School Monte Vista
Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?

Colorado Medical Society

Hannah Price 7th grade
\$100, invitation to exhibit at the Colorado Medical Society
Annual Meeting and attendance at the Presidential Inaugural
Dinner
Sargent Junior High School Monte Vista
Stuck On You

Richelle Fritzler 10th grade
\$100, invitation to exhibit at the Colorado Medical Society
Annual Meeting and attendance at the Presidential Inaugural
Dinner
Merino Jr/Sr High School Merino
*Sick From Non-Stick? A Study Done With Polytetrafluoroethyl-
ene And Caenorhabditis elegans*

Colorado Mineral Society

Thomas Roland 8th grade
\$25, 2 mineral specimens, book
Blevins Junior High School Fort Collins
The Effects Of Particle Size On Settling Rate

Jonathan Witte 8th grade
\$40, 2 mineral specimens, book
Littleton Academy Littleton
Impact To Sudden Death

Cody Caver 10th grade
\$25, 2 mineral specimens, book
Woodlin School Woodrow
*Hidden Contamination: An Investigation Of Elevated Sulfate
Levels*

Chris Twombly 11th grade
\$40, 2 mineral specimens, book
Conifer High School Conifer
The Mystery Of The Teepee Buttes

Colorado Mycological Society

Lauren Saxton 8th grade
\$25, Colorado Mushrooms book
Yuma Middle School Yuma
Mycorrhiza: Nature's Little Helper

Reno Tsosie 7th grade
\$30, certificate
Cortez Middle School Cortez
Color And Memory

Lilith Jacobs 7th grade
\$30, certificate
Bromley East Charter School Brighton
Drinking Water Or Wearing Magnets?

Antonia Lira 8th grade
\$30, certificate
Lamar Middle School Lamar
*Do Multiple Washings Of Sleepwear Affect The Flame
Resistance?*

Kevin Harris 7th grade
\$30, certificate
Wiggins Jr/Sr High School Wiggins
The Sky Is Falling

Kaitlin Hanenburg 8th grade
\$30, certificate
The Classical Academy Colorado Springs
Sound Asleep Keeping Houses Quiet

Noah Fischer 8th grade
\$30, certificate
St. Columba School Durango
Mold: A Study On Mold Growth In The Aftermath Of A Flood

Buddy Watson 7th grade
\$30, certificate
Trinity Lutheran School Fort Morgan
Home Sweet Home Field Advantage?

Bess Boucher 7th grade
\$30, certificate
North Middle School Colorado Springs
Down Deep Into Your Teeth

Monica Brandhuber 6th grade
\$30, certificate
Casey Middle School Boulder
Who's Germier? Man Or Beast?

Shawn Guice 6th grade
\$30, certificate
Miller Middle School Durango
Super Speed

Bethany Maxwell 6th grade
\$30, certificate
Dolores Middle School Dolores
Monkeying Around With Sea Monkeys

Poster Art Contest

Boya Liu
\$100, certificate
Fairview High School Boulder

Appendix 2

Ralph Desch Memorial Technical Writing Award
 Meredith MacGregor 11th grade
 \$100, certificate
 Fairview High School Boulder
Cracking The Brazil Nut Effect

Student Choice Award

Caitlin Reeves 8th grade
 \$50, certificate, trophy
 Cortez Middle School Cortez
Contagious Laughing

Robert Glissmann 12th grade
 Gwyneth Glissmann 9th grade
 \$50, certificate, trophy
 Peak to Peak Charter School Lafayette
Using Eulerian Models To Determine Initial Conditions Of Severe Weather

Colorado Scientific Society

Christopher Krause 8th grade
 \$50
 The Classical Academy Colorado Springs
Caution: Leaky Levees!

Hannah Piekenbrock 6th grade
 \$75
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

Cody Caver 10th grade
 \$75
 Woodlin School Woodrow
Hidden Contamination: An Investigation Of Elevated Sulfate Levels

Chris Twombly 11th grade
 \$100
 Conifer High School Conifer
The Mystery Of The Teepee Buttes

Colorado State University

Department of Biochemistry and Molecular Biology

Ananth Sridhar 12th grade
 \$100, certificate
 Cherry Creek High School Greenwood Village
Screening For Immune Deficiencies In Newborns Using Microfluidics

Department of Chemistry

Joel Lowinger 8th grade
 \$100, certificate
 Rocky Mountain Hebrew Denver
Gas? What's The Alternative?

Lisa Grossman 10th grade
 \$100, certificate
 Palmer High School Colorado Springs
UV Aware: The Effectiveness Of Sunscreens In Blocking UVA Light

Department of Horticulture and Landscape Architecture

K C Zinn 6th grade
 \$100
 St. Peter's Lutheran School Monte Vista
Erwinia On The Eye

Michaela Kaiser 11th grade
 \$100
 Sargent High School Monte Vista
Verifying Greenhouse Techniques Used To Test Potatoes For Susceptibility To Powdery Scab

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

Nicole Hodges 8th grade
 \$50 from the CVMA; \$50, certificate & gold medallion from the Auxiliary to the AVMA
 West Jefferson Middle School Conifer
Get It Right

Taylor Thompson 10th grade
 \$50 from the CVMA; \$50, certificate & gold medallion from the Auxiliary to the AVMA
 Merino Jr/Sr High School Merino
The Effects Of Ethanol Wet Distillers Grain In Beef Finishing Diets

Colorado-Wyoming Society of American Foresters

Teryn Paul 8th grade
 \$50 savings bond
 Dolores Middle School Dolores
Out Of The Ashes

Lindsey Rugh 9th grade
 \$50 savings bond
 Hotchkiss High School Hotchkiss
Fire On The Mountain

Decisioneering, Inc. - Crystal Ball Software

Andrew Milian 9th grade
 IPOD Nano
 Cherry Creek High School Greenwood Village
Computer Chord Recognition

Eastman Kodak Company

Hannah Piekenbrock 6th grade
 APS camera
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

Chris Twombly 11th grade
 APS camera
 Conifer High School Conifer
The Mystery Of The Teepee Buttes

Appendix 2

Erudite Linguistic Services

Erin Burke 8th grade
 \$50
 Miller Middle School Durango
Lexicon Science

Fort Collins Conservation District

Morgan Wilson 6th grade
 \$50, plaque
 Sargent Junior High School Monte Vista
BIO-DIESEL: Don't Just Eat Your Vegetables

Kaitlyn Lingus 10th grade
 \$50, plaque
 Branson School Branson
One "Mite"y Mission: Biological Compensation Suppression Of Convolvulus arvensis Implementing Host-Specific Aceria malherbae Phase II

**Human Factors and Ergonomics Society
 Rocky Mountain Chapter**

Jennifer Manfredo 8th grade
 \$100
 Canon City Middle School Canon City
A Dazzling Time With Visual Acuity

**Institute of Electrical and
 Electronics Engineering**

Daniel Haarburger 8th grade
 \$100
 Summit Middle School Boulder
Resource Face-Off: Hydrogen vs. Solar

Chris Messick 11th grade
 \$150
 Sargent High School Monte Vista
Point And Click, Literally: Phase II

**Intel Foundation
 Intel Foundation Computer Award**

Robin Betz 8th grade
 certificate, laptop computer (to be mailed later)
 Summit Middle School Boulder
Evolving Solutions

Chris Messick 11th grade
 certificate, laptop computer (to be mailed later)
 Sargent High School Monte Vista
Point And Click, Literally: Phase II

International Society for Optical Engineering

Colin Mummery 6th grade
 \$50
 St. Columba School Durango
Atmospheric Haze In The Four Corners

Terry Williams 8th grade
 \$100
 Mt. Garfield Middle School Clifton
Voices Of Light

Daniel Cromer 12th grade
 \$50
 Cherry Creek High School Greenwood Village
Applications Of A Myoglobin Biosensor Optimized For Cyanide Detection

Diana Qiu 11th grade
 \$100
 Palmer High School Colorado Springs
Liquid Crystals

Lockheed Martin

Ethan Hahn 8th grade
 \$50 US savings bond; model rocket; Space Exploration me-mento
 The Classical Academy Colorado Springs
Ion Lifter Thrust

Tim Schneider 10th grade
 \$100 US savings bond; model rocket
 Durango High School Durango
Running Monoped Robots

Teacher of the Year Award

TJ Donahue
 \$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
 Cherry Creek High School Greenwood Village

MAST Hotline

Matt Larimore 8th grade
 \$50
 Roncalli Middle School Pueblo
How To Calculate Modules Of Elasticity (Homestyle)

Malcolm Young 11th grade
 \$50
 Centaurus High School Lafayette
Coral Bleaching Adaptation

National Geophysical Data Center

Helen Killeen 8th grade
 \$100 savings bond, certificate, plaque
 Summit Middle School Boulder
Solar Flux: The Ultimate DJ

National Renewable Energy Laboratory

Robin Blenden 11th grade
 \$100
 Monte Vista High School Monte Vista
Selecting Oils To Make Better Biodiesel

**Optical Society of America
 Rocky Mountain Section**

Kelsea Anderson 6th grade
 certificate, 1-year subscription to Discover magazine
 Pagosa Springs Intermediate Pagosa Springs
Psyched For Solar Cells

Appendix 2

Rosie Li 10th grade
 certificate, 1-year subscription to Discover magazine
 Palmer High School Colorado Springs
*Where's The Endpoint? Using Lasers To Help Detect The
 End Of Titration*

Rio Tinto Minerals

Hannah Piekenbrock 6th grade
 \$50
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

Taylor Graham 6th grade
 \$100
 Miller Middle School Durango
Train Smoke In Durango: An Epidemiological Study

Charisma Rascon 10th grade
 \$50
 Sierra Grande High School Blanca
Cosmic Potholes

Tyler Keck 12th grade
 \$100
 Monte Vista High School Monte Vista
*Can Super Absorbent Polymers Lower The Concentration Of
 Metals In Real Water Environments?*

Rocky Mountain Association of Geologists

Hannah Piekenbrock 6th grade
 cash award
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

Alexandra Proietti 7th grade
 cash award
 Holy Family Catholic School Grand Junction
We're Hot, Hot, Hot In The Piceance Basin

Charisma Rascon 10th grade
 cash award
 Sierra Grande High School Blanca
Cosmic Potholes

Chris Twombly 11th grade
 cash award
 Conifer High School Conifer
The Mystery Of The Teepee Buttes

Rocky Mountain Goat Foundation

James Mauch 8th grade
 \$150
 East Middle School Grand Junction
Moose On The Mesa

Lindsey Rugh 9th grade
 \$150
 Hotchkiss High School Hotchkiss
Fire On The Mountain

Rocky Mountain Inventors Association

Rahul Shankar 6th grade
 two-year family membership
 Mountain Ridge Middle School Colorado Springs
To Switch Or Not To Switch

Matthew Zubiell 10th grade
 \$25, two-year family membership
 Lewis-Palmer High School Monument
Indoor Firefighter Location

Cody Caver 10th grade
 \$50, two-year family membership
 Woodlin School Woodrow
*Hidden Contamination: An Investigation Of Elevated Sulfate
 Levels*

Rocky Mountain Water Environment Association

Kayla Sandoval 7th grade
 \$50 check
 North Middle School Colorado Springs
Hair Cleaning Oil

Amanda Wilcox 7th grade
 \$100 check
 Merino Jr/Sr High School Merino
*Cactus Goo To The Rescue! Does Mucilage Clean
 Contaminated Water?*

Sabrina Kennedy 12th grade
 \$50 check
 Centaurus High School Lafayette
*The Analyzation Of Coal Creek Dissolved Organic Carbon And
 UV Absorbances*

Tyler Keck 12th grade
 \$100 check
 Monte Vista High School Monte Vista
*Can Super Absorbent Polymers Lower The Concentration Of
 Metals In Real Water Environments?*

Society for Mining, Metallurgy and Exploration Colorado Section

Hannah Piekenbrock 6th grade
 \$50, plaque
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

Thomas Roland 8th grade
 \$100, plaque
 Blevins Junior High School Fort Collins
The Effects Of Particle Size On Settling Rate

Tyler Keck 12th grade
 \$50, plaque
 Monte Vista High School Monte Vista
*Can Super Absorbent Polymers Lower The Concentration Of
 Metals In Real Water Environments?*

Appendix 2

Daniel Cromer 12th grade
 \$100, plaque
 Cherry Creek High School Greenwood Village
Applications Of A Myoglobin Biosensor Optimized For Cyanide Detection

Society of Manufacturing Engineers Northern Colorado, Chapter 354

Dane Cotten 11th grade
 Kyla Arndt 11th grade
 Tabitha Teansky 11th grade
 \$20, certificates, recognition by chapter 354
 Hotchkiss High School Hotchkiss
The LPR Offsetter

Society of Women Engineers Rocky Mountain Section

Rachel Washam 7th grade
 \$50, certificate
 St. John the Evangelist Middle Loveland
Will It Keep Going And Going?

Madeline Camp-Drees 7th grade
 \$75, certificate
 La Veta Jr/Sr High School La Veta
Snap On Safety Neck Protection

Caitlin Mahanna 9th grade
 \$50, certificate
 Hayden High School Hayden
Speed It Up

Diana Qiu 11th grade
 \$75, certificate
 Palmer High School Colorado Springs
Liquid Crystals

Soil & Water Conservation Society Colorado Chapter

Amanda Wilcox 7th grade
 \$25, certificate, ribbon
 Merino Jr/Sr High School Merino
Cactus Goo To The Rescue! Does Mucilage Clean Contaminated Water?

Allie Martin 7th grade
 \$50, certificate, ribbon
 Woodlin School Woodrow
When The Well Runs Dry

Cody Caver 10th grade
 \$25, certificate, ribbon
 Woodlin School Woodrow
Hidden Contamination: An Investigation Of Elevated Sulfate Levels

Tyler Keck 12th grade
 \$50, certificate, ribbon
 Monte Vista High School Monte Vista
Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?

United States Department of Commerce

David Strouse 12th grade
 opportunity for summer employment with Department of Commerce with possibility for future continuing employment
 Cherry Creek High School Greenwood Village
Modern Safety Applications Of Micro-Electronic-Mechanical Systems (MEMS)

Lesley Petrie 12th grade
 alternate for opportunity for summer employment with Department of Commerce with possibility for future continuing employment
 Nederland Jr/Sr High School Nederland
A Socioclimatological Analysis Of The Repercussions Of Hurricane Katrina

United States Geological Survey

Thomas Roland 8th grade
 reference book and mineral specimen
 Blevins Junior High School Fort Collins
The Effects Of Particle Size On Settling Rate

Cody Caver 10th grade
 reference book and mineral specimen
 Woodlin School Woodrow
Hidden Contamination: An Investigation Of Elevated Sulfate Levels

University of Colorado Health Sciences Center Medical Scientist Training Program

Elizabeth O'Donnell 12th grade
 \$50
 Monarch High School Louisville
Anisomycin Influence On Cell Death In Hippocampus

Ashley Pollock 11th grade
 \$50
 Wiggins Jr/Sr High School Wiggins
Evaluation Of Primary And Secondary Cells For In Vitro Assessment Of The Foreign Body Response

Yale Science and Engineering Association

Meredith MacGregor 11th grade
 certificate, pewter medallion (to be mailed later)
 Fairview High School Boulder
Cracking The Brazil Nut Effect

Zonta Club of Boulder County

Madeline Camp-Drees 7th grade
 \$100
 La Veta Jr/Sr High School La Veta
Snap On Safety Neck Protection

Appendix 2

Scholarships		
Adams State College		
Melanie Twiss one-year resident tuition and fees Canon City High School <i>Later-WHO-WHAT-HOW MANY-ality</i>	12th grade Canon City	
Nataara Tamada one-year resident tuition and fees Sierra Grande High School <i>Green, Greener, Greenest: Comparing Greening Within A Potato Variety</i>	9th grade Blanca	
Lena Martin one-year resident tuition and fees Limon High School <i>Electrochemical Cells vs Battery</i>	11th grade Limon	
Chris Twombly one-year resident tuition and fees Conifer High School <i>The Mystery Of The Teepee Buttes</i>	11th grade Conifer	
Eric Keeling one-year resident tuition and fees La Veta Jr/Sr High School <i>Underwater Structures As A Means Of Mitigating Wave Inundation</i>	11th grade La Veta	
Tyler Keck one-year resident tuition and fees Monte Vista High School <i>Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?</i>	12th grade Monte Vista	
Chelsea Oden one-year resident tuition and fees Monte Vista High School <i>Pursuing Patterns In Primes, Face III: An Investigation Of Prime Properties In A Three-Dimensional Sieve Of Crosthenes</i>	10th grade Monte Vista	
Richelle Fritzler one-year resident tuition and fees Merino Jr/Sr High School <i>Sick From Non-Stick? A Study Done With Polytetrafluoroethylene And Caenorhabditis elegans</i>	10th grade Merino	
Leslie Hase one-year resident tuition and fees Merino Jr/Sr High School <i>An Unlikely Weapon Against Bacteria: Bacteriophage Therapy As An Alternative To Traditional Treatment</i>	11th grade Merino	
Cesar Garcia one-year resident tuition and fees Walsh Jr/Sr High School <i>Insulation: Do You Dress Right?</i>	11th grade Walsh	

Jessica Haugen one-year resident tuition and fees Sargent High School <i>Grass vs Grain: A Study In The Connection Between IMF And Omega-3 In Beef</i>	9th grade Monte Vista
Bailey Jones Patrick Martin one-year resident tuition and fees Canon City High School <i>What Is The Radiation Like In Canon City?</i>	11th grade 11th grade Canon City

Colorado School of Mines

Chris Twombly four-year half resident tuition scholarship to Colorado School of Mines Conifer High School <i>The Mystery Of The Teepee Buttes</i>	11th grade Conifer
Chris Messick four-year half resident tuition scholarship to Colorado School of Mines Sargent High School <i>Point And Click, Literally: Phase II</i>	11th grade Monte Vista
Diana Qiu four-year half resident tuition scholarship to Colorado School of Mines Palmer High School <i>Liquid Crystals</i>	11th grade Colorado Springs
Daniel Craveiro de Sa four-year half resident tuition scholarship to Colorado School of Mines Cherry Creek High School <i>The Effects Of Ultraviolet-B Radiation On The Nitrogen Cycle In A Marine Habitat</i>	11th grade Greenwood Village

Colorado State University – Pueblo

David Strouse \$1,000 resident tuition and fees scholarship to Colorado State University – Pueblo Cherry Creek High School <i>Modern Safety Applications Of Micro-Electronic-Mechanical Systems (MEMS)</i>	12th grade Greenwood Village
Amit Helevi \$1,000 resident tuition and fees scholarship to Colorado State University – Pueblo Fairview High School <i>Neurite Extension In PC12 Cells Plated To Collagen-Doped PEG Hydrogel</i>	12th grade Boulder
Tyler Keck \$1,000 resident tuition and fees scholarship to Colorado State University – Pueblo Monte Vista High School <i>Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?</i>	12th grade Monte Vista

Appendix 2

Intel Foundation

Ryan Patterson Scholarship

Robin Blenden 12th grade
 certificate, \$2,000 scholarship to be used at a college
 of student's choice
 Monte Vista High School Monte Vista
*The Effects Of Anti-Gel Additives On Biodiesel And Petroleum
 Diesel Blends*

University of Colorado at Boulder

College of Engineering and Applied Sciences

Skylar Anderson 9th grade
 \$1,500/year scholarship for four years
 Palmer High School Colorado Springs
*What Is Your Music Trying to Tell You?: Using Fractals To
 Compose And Encrypt Music*

Chris Messick 11th grade
 \$1,500/year scholarship for four years
 Sargent High School Monte Vista
Point And Click, Literally: Phase II

Forrest Friesen 11th grade
 \$2,500/year scholarship for four years
 Palmer High School Colorado Springs
*Design And Construction Of A Dynamic Artificial Neural
 Network*

Chelsea Oden 10th grade
 \$4,000/year scholarship for four years
 Monte Vista High School Monte Vista
*Pursuing Patterns In Primes, Face III: An Investigation Of
 Prime Properties In A Three-Dimensional Sieve Of Crotothenes*

Science Service

American Psychology Association

Dani Gonzales 10th grade
 certificate
 Grand Valley High School Parachute
No Guts Know Glory

ASM Materials Education Foundation

Chris Messick 11th grade
 Certificate, medallion (to be mailed later)
 Sargent High School Monte Vista
Point And Click, Literally: Phase II

Discovery Channel, Inc.

Discovery Young Scientist Challenge

Katy Schneider 6th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Miller Middle School Durango
The Mind's Eye
 Alan Seltzer 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Summit Middle School Boulder
A Dose Of Detergent And Duckweed

Jordan Lestina 7th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Dove Creek Middle School Dove Creek
L-Ascorbic Acid - Analyzing Food By Titration

Hannah Piekenbrock 6th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 West Jefferson Middle School Conifer
Erosion In The Denver Metro Area

J. Raleigh Burt 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Sargent Junior High School Monte Vista
*Deflation Evaluation: Investigating Passive Air Loss From Butyl
 Bicycle Tubes*

Emily Schnoor 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Sargent Junior High School Monte Vista
De"gas"enator

Robin Betz 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Summit Middle School Boulder
Evolving Solutions

Jennifer Manfredo 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Canon City Middle School Canon City
A Dazzling Time With Visual Acuity

Marlena Widman 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 The Classical Academy Colorado Springs
Grapes In Your Gas Tank

Ethan Hahn 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 The Classical Academy Colorado Springs
Ion Lifter Thrust

Alex Hetrick 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Walsh Jr/Sr High School Walsh
This Little Piggy ... Didn't Quite Make It!

Caitlin Reeves 8th grade
 certificate, lapel pin, nomination to enter the DCYSC national
 competition
 Cortez Middle School Cortez
Contagious Laughing

Appendix 2

K C Zinn 6th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
St. Peter's Lutheran School Monte Vista
Erwinia On The Eye

Emmie Mediate 7th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
The Classical Academy Colorado Springs
Color And Chlorine

Jonathan Witte 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
Littleton Academy Littleton
Impact To Sudden Death

Christopher Krause 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
The Classical Academy Colorado Springs
Caution: Leaky Levees!

Isaiah Branch-Boyle 7th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
St. Columba School Durango
Solar Integration - The Key To Passive Solar Efficiency

Rahul Shankar 6th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
Mountain Ridge Middle School Colorado Springs
To Switch Or Not To Switch

Hannah Price 7th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
Sargent Junior High School Monte Vista
Stuck On You

Zane Sternberg 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
La Veta Jr/Sr High School La Veta
Does Phellinus Rimosus Contain Antibacterial Agents?

Allison Bennett 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
Peak to Peak Charter School Lafayette
*Discovering How To Determine The Height From Which A Ball
Was Dropped*

Trevar Hobbs 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition
Ward Middle School Ordway
*The tell Mutation And Its Effects On The Drosophila
Melanogaster*

Herbert Hoover Presidential Library Association

Herbert Hoover Young Engineer Award

Chris Messick 11th grade
certificate, medallion
Sargent High School Monte Vista
Point And Click, Literally: Phase II

Intel

Intel Excellence in Computer Science Award

Chelsea Oden 10th grade
certificate, \$200 (to be mailed later)
Monte Vista High School Monte Vista
*Pursuing Patterns In Primes, Face III: An Investigation Of
Prime Properties In A Three-Dimensional Sieve Of Crosthenes*

International Society for Optical Engineering

Reno Tsosie 7th grade
certificate, entry into a drawing for cash award
Cortez Middle School Cortez
Color And Memory

Mu Alpha Theta

Robert Glissmann 12th grade
Gwyneth Glissmann 9th grade
certificate
Peak to Peak Charter School Lafayette
*Using Eulerian Models To Determine Initial Conditions Of
Severe Weather*

National Society of Professional Engineers

Innovative Engineering Award

Matthew Zubiel 10th grade
certificate, lapel pin, supporting materials, one-year subscription
to Engineering Times
Lewis-Palmer High School Monument
Indoor Firefighter Location

Ricoh Corporation

Ricoh Sustainability Development Award

Jonathan Bentley 7th grade
certificate, one-year subscription to Science News
Stanley British Primary School Denver
CO2 Emissions: What Grade Does Your Gas Get?

Scientific American

Chris Messick 11th grade
certificate, one-year subscription to Scientific American
Sargent High School Monte Vista
Point And Click, Literally: Phase II

Malcolm Young 11th grade
certificate, one-year subscription to Scientific American
Centaurus High School Lafayette
Coral Bleaching Adaptation

Lindsey Rugh 9th grade
certificate, one-year subscription to Scientific American
Hotchkiss High School Hotchkiss
Fire On The Mountain

Appendix 2

Max Krakauer 10th grade
Alex Ruch 10th grade
certificate, one-year subscription to Scientific American
Palmer High School Colorado Springs
Lighting A Fire: A Study Of The Fuels Involved In The Hayman Fire

United States Department of Commerce

Kelsey Fowler 9th grade
certificate, copy of United States Group on Earth Observations
brochure
Palmer High School Colorado Springs
Shipwreck Solutions: The Recovery Of An Oil Spill

United States Metric Association

John RF Kelly 9th grade
certificate
Loveland High School Loveland
How Does The Amount Of Powder In A Bullet Affect The Average Velocity?

United States Public Health Service

Katie Winter 7th grade
certificate
Merino Jr/Sr High School Merino
Xanthones For Your Health: The Effects Of Xanthones On Fermentation

Water Environment Federation

Stockholm Junior Water Prize
Tyler Keck 12th grade
certificate, nomination to enter the Stockholm Junior Water
Prize national competition
Monte Vista High School Monte Vista
Can Super Absorbent Polymers Lower The Concentration Of Metals In Real Water Environments?

Appendix 3
2005/2006 Expense Report
September 1, 2005 – August 31, 2006

Category Descriptions	Budget	Actual	Difference
INCOME			
Sponsorships	\$27,400.00	\$25,600.00	(\$1,800.00)
Contributions	\$2,000.00	\$2,583.16	\$583.16
In-Kind	\$8,075.00	\$3,840.70	(\$4,234.30)
Registrations	\$11,340.00	\$11,515.00	\$175.00
Grants	\$9,600.00	\$10,500.00	\$900.00
General Income			
<i>Interest</i>	\$300.00	\$547.63	\$247.63
<i>Sales</i>	\$1,000.00	\$1,038.94	\$38.94
<i>RSF Outreach Funds</i>	\$0.00	\$0.00	\$0.00
<i>Pioneers of Science Awards</i>	\$330.00	\$330.00	\$0.00
<i>Teacher of the Year Award</i>	<u>\$3,000.00</u>	<u>\$3,000.00</u>	<u>\$0.00</u>
TOTAL General Income	\$4,630.00	\$4,916.57	\$286.57
TOTAL INCOME	\$63,045.00	\$58,955.43	(\$4,089.57)
EXPENSES			
Awards Ceremony			
Cash Awards	\$10,180.00	\$10,210.00	(\$30.00)
Other Awards	\$7,500.00	\$6,778.11	\$721.89
Photos	\$250.00	\$193.24	\$56.76
Press Release	\$400.00	\$370.00	\$30.00
Program	\$300.00	\$301.98	(\$1.98)
Room Rental	<u>\$600.00</u>	<u>\$408.00</u>	<u>\$192.00</u>
TOTAL Awards Ceremony	\$19,230.00	\$18,261.33	\$968.67
CSSF, Inc. Board			
Communications	\$480.00	\$536.54	(\$56.54)
Equipment	\$0.00	\$0.00	\$0.00
Meetings	\$900.00	\$1,261.36	(\$361.36)
Operations	\$6,945.00	\$7,064.03	(\$119.03)
Services	\$200.00	\$101.00	\$99.00
Supplies	<u>\$150.00</u>	<u>\$222.97</u>	<u>(\$72.97)</u>
TOTAL CSSF, Inc. Board	\$8,675.00	\$9,185.90	(\$510.90)
Finalists			
Activities	\$2,500.00	\$2,170.08	\$329.92
Publications	\$1,400.00	\$1,396.51	\$3.49
Registration	\$4,900.00	\$3,039.77	\$1,860.23
Room Rental	\$700.00	\$675.00	\$25.00
Transportation	<u>\$950.00</u>	<u>\$989.50</u>	<u>(\$39.50)</u>
TOTAL Finalists	\$10,450.00	\$8,270.86	\$2,179.14

Appendix 3
2005/2006 Expense Report
September 1, 2005 – August 31, 2006

Category Description	Budget	Actual	Difference
ISEF			
Affiliation	\$500.00	\$500.00	\$0.00
Travel	<u>\$6,360.00</u>	<u>\$4,787.74</u>	<u>\$1,572.26</u>
TOTAL ISEF	\$6,860.00	\$5,287.74	\$1,572.26
Judging			
Communications	\$1,000.00	\$1,058.64	(\$58.64)
Room Rental	\$120.00	\$120.00	\$0.00
Travel	\$250.00	\$300.87	(\$50.87)
Supplies	\$500.00	\$394.13	\$105.87
Thank Yous	<u>\$2,600.00</u>	<u>\$2,917.83</u>	<u>(\$317.83)</u>
TOTAL Judging	\$4,470.00	\$4,791.47	(\$321.47)
Outreach	\$1,000.00	\$1,003.34	(\$3.34)
RSF Outreach	\$0.00	\$0.00	\$0.00
CSEF Expenses			
Adult Sponsors	\$250.00	\$343.62	(\$93.62)
Advisory Council	\$50.00	\$43.48	\$6.52
Fund Raising	\$150.00	\$133.03	\$16.97
Personnel	\$6,500.00	\$6,335.56	\$164.44
Publicity	\$200.00	\$59.00	\$141.00
Regional Fair Directors	\$100.00	\$247.52	(\$147.52)
Supplies	\$300.00	\$1,393.13	(\$1,093.13)
Volunteers	<u>\$1,300.00</u>	<u>\$1,179.66</u>	<u>\$120.34</u>
TOTAL CSEF Expenses	\$8,850.00	\$9,735.00	(\$885.00)
SRC/Display and Safety			
Communications	\$150.00	\$239.68	(\$89.68)
Meetings	\$600.00	\$585.65	\$14.35
Supplies	<u>\$100.00</u>	<u>\$136.31</u>	<u>(\$36.31)</u>
TOTAL SRC/Display and Safety	\$850.00	\$961.64	(\$111.64)
TOTAL EXPENSES	\$60,385.00	\$57,497.28	\$2,887.72
OVERALL TOTAL	\$1,458.15	\$2,660.00	