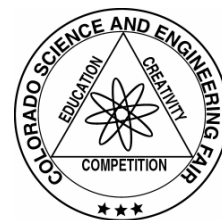
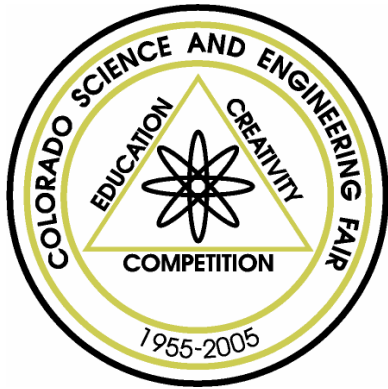


Colorado State Science Fair, Inc.

2005 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, 2005
Colorado State Science Fair, Inc.
P O Box 1465
Fort Collins, CO 80522-1465
Tel (970) 498-4121
Fax (970) 491-2005
e-mail: csef@lamar.colostate.edu
<http://www.csef.colostate.edu>

Registered Office Location:
CSMATE
Colorado State University
Fort Collins, CO 80523-1802

CSEF Director and Registered Agent:
Courtney Butler, (970) 491-7716

2005 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).

2005 COLORADO SCIENCE AND ENGINEERING FAIR

The fiftieth Colorado Science and Engineering Fair was held at Lory Student Center on the Colorado State University campus on April 7 - 9, 2005.

This year, CSEF winners were chosen from among 287 projects represented by 325 finalists from 107 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 100 of their own representatives to judge exhibits based on their own criteria. They judged the student finalists and conferred Special Awards which represented an aspect of the bestowing organization. These included college scholarships, offers of summer employment, field trips, cash, savings bonds, and scientific equipment. Over 1,000 people attended the Awards Ceremony this year.

The 2005 Colorado Science and Engineering Fair had 22 sponsors. Sponsors included 6 Platinum Sponsors (providing over \$2,500 of support), 6 Gold Sponsors (\$1,000 – \$2,500 of support each), 1 Silver Sponsor (\$750 - \$1,000 of support each), and 9 Regular Sponsors (\$500 - \$750 of support each). In addition, there were 12 Financial Contributors (less than \$500 each). Also, several individuals donated through the Denver Combined Federal Campaign.

Scholarships from Adams State College (ASC), University of Colorado at Boulder (CU) and Colorado School of Mines (CSM) were also presented. Adams State College awarded eleven one-year full scholarships for resident tuition and fees. The Colorado School of Mines awarded five four-year full 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 Ms. Sarah Andrews, forensic geologist and author of the Em Hansen mystery novels.

Ms. Andrews is a geologist, teacher and writer who likes to combine things that most people wouldn't put together: science and murder for instance. She didn't start out to be a scientist or a writer, and her father (an art teacher) made her swear she wouldn't teach. But rocks and murder won out and, after coming West to attend Colorado College and Colorado State University, she began a very complicated career in geology that has so far taken her through five different ways to use her education . . . and add to it! Ms. Andrews talked about how her learning disability actually helped her learn, how and when she decided to study rocks, and how she came to write ten murder mysteries about geology.

(See Appendix 1 – 2005 CSEF Schedule)

2005 COLORADO SCIENCE AND ENGINEERING FAIR TOP AWARDS

The top Senior Division individual project exhibitor of the 50th 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 **Nissa Schmidt**, Merino Jr/Sr High School in Merino, grade 12, for the project *The Psychopharmacological Effects Of Antidepressants On *Procambarus clarkii**. Second place for best individual project, and also a winner of an all-expense paid trip to compete at the Intel ISEF was **D J Horton**, Hotchkiss High School in Hotchkiss, grade 10, for the project *Biological Control Of A Common Corn Criminal, Phase Two*. Awarded third place for best individual project was **Robert Glissmann**, Peak to Peak Charter School in Lafayette, grade 11, for the project *Utilizing Audio Profile Matching Technology for Replicating Body Kinesis*. Robert was able to compete at the Intel ISEF through his 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 **Michael Polmear** and **Lalith Polepeddi**, Cherry Creek High School in Greenwood Village, grade 11, for the project *Proteomics Analysis Of Osteosarcoma Cells*.

The winner of the Ralph F. Desch Memorial Technical Writing Award was **Kristyn Rodzinyak** from Rampart High School in Colorado Springs, grade 12, for the project *Crater Characteristics: Water On Mars?*.

The winner of the Senior Division Student Choice Award was **Chris Messick**, Sargent High School in Monte Vista, grade 10, for the project *Point And Click, Literally*. Also a winner of the Senior Division Student Choice Award was **Tim Schneider**, Durango High School in Durango, grade 9, for the project *Robotonomous*. The Junior Division Student Choice winner was **Gwyneth Glissman**, Peak to Peak Charter School in Lafayette, grade 8, for the project *A 21st Century Problem: Carbon Dioxide*.

The winner of the Poster Art Contest was **Allison McVey**, Springfield Jr/Sr High School in Springfield.

The winner of the Lockheed Martin CSEF Teacher of the Year Award was **Penny Propst** of Merino Jr/Sr High School in Merino. Ms. Propst 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 in their first scientific endeavors, the Board of Directors is sponsoring the new Pioneers of Science Awards:

Bryant Elrick, Flagler Public School in Flagler, grade 8; **Madison Cerny**, Eagle County Charter Academy in Edwards, grade 7; **Noah Fischer**, St. Columba Catholic School in Durango, grade 7; **Tamara Jefferson, Tiffany Langevin, & Amanda Archuleta**, Corwin Middle School in Pueblo, grade 8; **Rafe Paulson**, Sargent Junior High School in Monte Vista, grade 8; **Connor Spaeth**, Mackintosh Academy in Littleton, grade 6; **Danica Cox**, Swink School in Swink, grade 6; **Elizabeth Burger & Nicole Ortega**, Harrison Elementary School in Canon City; **Katie Newton**, Yuma Middle School in Yuma, grade 8; and **Bailey Younger**, Miller Middle School in Durango, grade 6; **Brandy Haller**, Woodlin School in Woodrow, grade 7.



2005 COLORADO SCIENCE AND ENGINEERING FAIR

SCHOLARSHIP AWARDS

ADAMS STATE COLLEGE

Melanie Twiss, Canon City High School in Canon City, grade 11, for the project *Reflexes And Sensitivity*.

Ashley Apple, Canon City High School in Canon City, grade 12, for the project *Effects of Different Fertilizers on Plants – Dieffenbachia maculate ‘camilla’*.

Rosie Li, Palmer High School in Colorado Springs, grade 10, for the project *Where’s The Endpoint? Using Lasers To Help Detect The End Of Titration*.

Tyler Benton, Stratton High School in Stratton, grade 12, for the project *Investigating Surface Geology Of The Anton Scarp Formation*.

Nathan Thomsen, The Classical Academy in Colorado Springs, grade 12, for the project, *Robotic Roving: Robotic Navigation And Obstacle Avoidance Using Sensors*.

Heather McGuire, Woodlin School in Woodrow, grade 12, for the project *Utilizing GPS And HPLC/MS In Evaluating Animal Chemical Transport In The South Platte*.

Forrest Friesen, Palmer High School in Colorado Springs, grade 10, for the project *Existing Technology Applied To Pseudoholographic Visual Immersion*.

Jon Monserud, Nederland Jr/Sr High School in Nederland, grade 12, for the project *Take A Deep Breath*.

Eris Moore, Woodlin School in Woodrow, grade 12, for the project *Old Traditions: New Applications Characterization Of Plants As Protease Inhibitors*.

Linell Griffin, Walsh High School in Walsh, grade 12, for the project *The Effects Of A Magnetic Field On The Viscosity Of Magnetorheological Fluid*.

D J Horton, Hotchkiss High School in Hotchkiss, grade 10, for the project *Biological Control Of A Common Corn Criminal, Phase Two*.

COLORADO SCHOOL OF MINES

Tyler Benton, Stratton High School in Stratton, grade 12, for the project *Investigating Surface Geology Of The Anton Scarp Formation*.

Adam Sidman, Palmer High School in Colorado Springs, grade 11, for the project *Camera Stabilization: Take 2*.

Megan Emmons, Del Norte High School in Del Norte, grade 10, for the project *Analysis Of Driver Strategy On Traffic Flow*.

Danielle Gonzales, Grand Valley High School in Parachute, grade 9, for the project *Water Quality Of The Colorado River From Glenwood Springs To Parachute*.

Adreanne Brundgardt, Brush High School in Brush, grade 10, for the project *The Impinging Water Droplet*.

UNIVERSITY OF COLORADO

Chris Messick, Sargent High School in Monte Vista, grade 10, for the project *Point And Click, Literally*.

Robert Glissmann, Peak to Peak Charter School in Lafayette, grade 11, for the project *Utilizing Audio Profile Matching Technology For Replicating Body Kinesis*.

Tim Schneider, Durango High School in Durango, grade 9, for the project *Robotonomous*.

Farheen Rizvi, Boulder High School in Boulder, grade 12, for the project *Kinematics Of Highly Ionized High-Velocity Clouds*.

RYAN PATTERSON SCHOLARSHIP

The Ryan Patterson Scholarship is in honor of the Intel ISEF top winner of 2001, who is from Grand Junction, CO and currently attending the University of Colorado at Boulder. The Intel Foundation in Colorado Springs funds this scholarship and the winner can use it at the school of his/her choice. The 2005 winner was **Sarah Moll**, La Veta Jr/Sr High School in La Veta, grade 12, for the project *The Probability Of God*.

(See Appendix 2 – CSEF Press Release)

2005 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 1,300 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 56 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 56th Intel ISEF held in Phoenix, AZ May 8 - 13, 2005.

GRAND AWARDS

Nissa Schmidt from Merino, CO won \$1,500 (2nd Place) in Behavioral & Social Sciences.

Adam Sidman from Colorado Springs, CO won \$1,500 (2nd Place) in Engineering.

Meredith MacGregor from Boulder, CO won \$1,500 (2nd Place) in Physics.

Lalith Polepeddi & Michael Polmear from Englewood, CO won \$1,000 (3rd Place) in the team category.

Robert Glissmann from Boulder, CO won \$500 (4th Place) in Engineering.

D J Horton from Crawford, CO won \$500 (4th Place) in Zoology.

SPECIAL AWARDS

Adreanne Brundgardt from Brush, CO won \$1,000 and a subscription to Science News for herself and her sponsor from Eastman Kodak Company (1st Place).

Nissa Schmidt won \$1,000 and a student membership from the American Psychological Association (1st Place).

Daniel Cromer from Englewood, CO won a \$5,000 per year for four years tuition scholarship from Albany College of Pharmacy of Union University. Daniel also won a t-shirt and subscription to "Chem Matters" from the American Chemical Society (Honorable Mention).

Robert Glissmann received a tuition scholarship in the amount of \$105,000 from Drexel University. Robert also received a \$5,000 per year for four years tuition scholarship from Oregon State University.

Patrick Herklotz from Colorado Springs, CO won \$500 and a subscription to the "Journal of Speech and Hearing Research" from the American Speech-Language-Hearing Association (2nd Place). Patrick also won an Honorable Mention award from the National Academy of Neuropsychology.

Meredith MacGregor won \$3,000, a one-year AAPT membership, a one-year APS student membership, subscriptions to AAPT and APS journals from the American Association of Physics Teachers and the American Physical Society (1st Place).

Adam Sidman won a paid summer internship at an Agilent Technologies site from Agilent Technologis. Adam also won a trip to China to attend the China Adolescents Science and Technology Innovation Contest from the China Association for Science and Technology. Adam also received a tuition scholarship in the amount of \$105,000 from Drexel University. Adam also won the IEEE Foundation President's Scholarship Award of \$10,000. And finally, Adam also received UTC stock with an approximate value of \$2,000 from United Technologies Corporation. Another award that Adam won, but that was not announced, was a \$4,000 scholarship to Arizona State University.

GOVERNMENT AWARDS

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

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

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
Lockheed Martin Space Science Systems
LSI Logic
US Department of Commerce/NTIA/ITS

GOLD SPONSORS

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

Ball Aerospace & Technologies Corporation
Ball Corporation
Colorado Medical Society
Education Foundation
Kodak Colorado Division
Poudre High School
El Pomar Youth in Community Services
University of Colorado – College of
Engineering and Applied Science

SILVER SPONSORS

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

Kaiser-Hill Company

REGULAR SPONSORS

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

Anheuser-Busch, Inc.
Colorado Engineering Council
Decisioneering, Inc.
Denver Enterprise Center
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
Tim and Courtney Butler
Trudy Forsyth
Gina Holland
King Soopers
Robert Lamereur
Marjorie McLellan
Pro Sports
Villa Pizza & Butler Pizza Company
Wal-Mart Store #1008
Xcel Energy Foundation

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

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Regular Member since 2002

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Bonnie Hames – Secretary
Regular Member since 1999

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Denver Chapter of the IEEE/LEOS Society
Gary Wilson
Regular Member since 2000

REGIONAL FAIR DIRECTORS

Arkansas Valley Regional Science Fair
Joel Grey and Charles Jacobs

Boulder Valley Regional Science Fair
Jennifer Barr and Anita Frant

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
Kim Melville-Smith and Courtney Willis

Morgan/Washington Regional Science Fair
Elemer Bernath and David Miner

Northeast Regional Science Fair
Laura Speaker and Janet Klein

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

Western Regional Science Fair
Stephanie Matlock-Cooley and Rob Robison

MEMBERS AT LARGE

Richard Bornisky	Candus Muir
Travis Garoutte	David Pfuhl
Nancy Gettman	Judy Prester
Steve Iona	Deanna Schrock
Larry Jakel	Jim Sites
Charles Johnson	Doug Steward
John McConnell	Laura Ussery
Beverly Meier	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 and Safety

The focus of this committee is to oversee the volunteers who check students' 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
50th Annual Colorado Science and Engineering Fair

Lory Student Center

Fair Headquarters: 2nd Floor Lobby

Colorado State University

Thursday, April 7, 2005

Finalist Schedule

8:30 AM – 11:00 AM	Tour Ticket Sales	Room 224/226
8:30 AM – 11:30 AM	SRC Interviews – <i>Students requiring an interview, must comply BEFORE 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 done and an Official Photo has been taken. Finalists must be out of the exhibit areas 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>Students must be at their exhibits for interviews.</i>	Main Ballroom

Adult Schedule

2:00 PM – 3:30 PM	Regional Fair Director’s Meeting	Room 224/226
3:30 PM – 4:30 PM	ISEF Rule Updates	Room 224/226

Judging Schedule

10:30 AM – 11:00 AM	Grand Awards Judge 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
12:30 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	<u>Special Judges</u> may enter the exhibit areas. <u>Judges only</u> in the exhibit rooms.	
2:00 – 5:00 PM	<i>Students will be at their exhibits for interviews.</i>	
5:30 PM	Exhibit areas are locked. Final Judging continues.	

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

Friday, April 8, 2005

9:00 AM – 5:00 PM	CSEF Open to the Public	Main Ballroom
9:00 AM – 9:50 AM	Guest Speaker: Sarah Andrews	CSU Theatre
10:30 AM – 3:00 PM	Tours: Students, their sponsors, and family, and judges are invited to participate in the tours by pre-registering on Thursday morning.	
2:00 PM	Student Choice and Poster Contest ballots are due.	Registration Booth
7:00 PM	Awards Ceremony	Thompson Valley HS

Saturday, April 9, 2005

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 224/226
11:00 AM – 12:00 PM	Pizza Party: Sponsored by Lockheed Martin and provided by Villa Pizza for finalists, their sponsors and families and judges.	Main Ballroom

Finalists must be present to win door prizes!

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 224/226

The upcoming Intel International Science and Engineering Fair will be held in Phoenix, AZ May 8 – 14, 2005.
 Next year’s 51st Colorado Science and Engineering Fair will be April 6 – 8, 2006.

Appendix 2

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

Junior Best Individual Projects

First Place Best Individual Project

J. Raleigh Burt 7th grade
Dangerous Decision: The Consideration For Helmet Use At Any Speed
Sargent Junior High School Monte Vista

Second Place Best Individual Project

Helen Killeen 8th grade
Solar Flux: The Ultimate DJ
Summit Middle School Boulder

Third Place Best Individual Project

Alex Brown 8th grade
Can Zea Mays Leaf Emergence Be Predicted By Direction Of The Seed Placement?
Yuma Middle School Yuma

Senior Best Individual Projects

First Place Best Individual Project

Nissa Schmidt 12th grade
The Psychopharmacological Effects Of Antidepressants On Procambarus clarkii
Merino Jr/Sr High School Merino

Second Place Best Individual Project

D J Horton 10th grade
Biological Control Of A Common Corn Criminal; Phase
Hotchkiss High School Hotchkiss

Third Place Best Individual Project

Robert Glissmann 11th grade
Utilizing Audio Profile Matching Technology for Replicating Body Kinesis
Peak to Peak Charter School Lafayette

Junior Best Team Projects

First Place Best Team Project

Alexandra Dostal & Rebecca Siegal 8th grade
Methane Metropolis
West Middle School Colorado Springs

Second Place Best Team Project

Dominic Fuller-Rowell & Tim Cowley 8th grade
Alternative Transportation Through Magnetic Levitation and Propulsion
Summit Middle School Boulder

Third Place Best Team Project

Allie Martin & Rebekkah McCaleb 6th grade
Spuds Gone Bad
Woodlin School Woodrow

Senior Best Team Projects

First Place Best Team Project

Michael Polmear & Lalith Polepeddi 11th grade
Proteomics Analysis Of Osteosarcoma Cells
Cherry Creek High School Greenwood Village

Second Place Best Project

Corey Kembel & David Unger 10th grade
A Study Of Dispersion States In Driven Surface Waves
Brush High School Brush

Junior Behavioral & Social Sciences

First Place

Jaimie Jennings 8th grade
Head For The Hills
North Middle School Colorado Springs

Second Place

Karina Schorr 7th grade
Road Narrows
Eagle County Charter Academy Edwards

Third Place

Taylor Symons 6th grade
Do You Stop Or Do You Roll?
McKinley Elementary School Canon City

Honorable Mention

Iftin Abshir 8th grade
The Proof Is In The Print: An Analysis Of Fingerprint Patterns Within Different Human Ethnicities
Littleton Academy Littleton

Honorable Mention

Kelsey Burns 8th grade
Less Stress - Read Best?
Flagler Public School Flagler

Team Award Nomination

Kurt Oleson & Michael Sadwith 6th grade
Will A Mouse Follow A Lighted Path?
Stanley British Primary School Denver

Senior Behavioral & Social Sciences

First Place

Nissa Schmidt 12th grade
The Psychopharmacological Effects Of Antidepressants On Procambarus clarkii
Merino Jr/Sr High School Merino

Second Place

Samantha McDonnel 12th grade
Are Rules Generally Used In Processing And Producing Language?
Broomfield High School Broomfield

Third Place

Erin McAuliffe 12th grade
The Effects Of Emotional Words: Supraliminal vs. Subliminal
Monte Vista High School Monte Vista

Appendix 2

Junior Botany

First Place

Alex Brown 8th grade
Can Zea Mays Leaf Emergence Be Predicted By Direction Of The Seed Placement?
 Yuma Middle School Yuma

Second Place

Robert McCall 7th grade
The Effect Of Crop Residue On Millet Germination
 Lone Star Junior High School Otis

Third Place

Eliot Jackson 8th grade
The Relationship Between The Type Of H2O Salinities And The Growth Of Marine Plants
 Stanley British Primary School Denver

Honorable Mention

Jessica Spencer 7th grade
Potatoes: From Tissue Culture To Tubers
 Monte Vista Middle School Monte Vista

Honorable Mention

John William Sabin 7th grade
Can You Dig It?
 Notre Dame Catholic School Denver

Honorable Mention

Emily Houlihan 6th grade
Plants With A Tan
 Centennial Middle School Boulder

Honorable Mention

Lyndee Charles 7th grade
How Deep Is To Deep
 Flagler Public School Flagler

Honorable Mention

Levi Zwirn 7th grade
Green Thumb Economics
 Yuma Middle School Yuma

Team Award Nomination

Allie Martin & Rebekkah McCaleb 6th grade
Spuds Gone Bad
 Woodlin School Woodrow

Senior Botany

First Place

Balaji Sridhar 12th grade
Oxidative DNA Damage During Symbiosis Between Sinorhizobium meliloti And The Alfalfa Plant
 Cherry Creek High School Greenwood Village

Second Place

Kirk Wilkinson 9th grade
Want Vitamin C? Eat A Potato!
 Monte Vista High School Monte Vista

Third Place

Lisa Grossman 9th grade
Plants Through Chromatography
 Palmer High School Colorado Springs

Honorable Mention

Holli Linman 10th grade
A Cornucopia Of A Green Salad Of Cover Crops: Solicam Phytoremediation
 Hotchkiss High School Hotchkiss

Honorable Mention

Ty Goodan 9th grade
The Effect Of Yucca On Native Rangeland In Union County, New Mexico
 Branson School Branson

Honorable Mention

Michaela Kaiser 10th grade
Utilizing Greenhouse Techniques For Evaluation Of Advanced Potato Cultivars Infected With Spongospore
 Sargent High School Monte Vista

Junior Chemistry

First Place

Katelyn Yowell 6th grade
Candy Chromatography
 Genoa-Hugo School Hugo

Second Place

Crystal Purcell 6th grade
Do You Know Your H2O?
 Pagosa Springs Intermediate School Pagosa Springs

Third Place

Kaleb Kurtzer 7th grade
The Heat Is On: Floor Fires
 Merino Jr/Sr High School Merino

Honorable Mention

Trevar Hobbs 7th grade
Copper Flame Test
 Ward Middle School Ordway

Team Award Nomination

Juan Delgado & Vernon Wares 7th grade
Chalk It Up To Chemical Weathering
 Spann School Pueblo

Senior Chemistry

First Place

Alex West 11th grade
Development Of A Rapid Cellar Detection Method For 4-Ethyl Phenol In Red Wine Fermentations
 Conifer High School Conifer

Second Place

Daniel Cromer 11th grade
Cyanide Detection Using A Myoglobin Biosensor
 Cherry Creek High School Greenwood Village

Appendix 2

Third Place

Rosie Li 10th grade
Where's The Endpoint? Using Lasers To Help Detect The End Of Titration
 Palmer High School Colorado Springs

Honorable Mention

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

Junior Earth & Space Sciences

First Place

Helen Killeen 8th grade
Solar Flux: The Ultimate DJ
 Summit Middle School Boulder

Second Place

Samantha Wadsworth 6th grade
The Effects Of Earthquakes On Different Shaped Buildings
 Mountain Ridge Middle School Colorado Springs

Third Place

Nicholas Skahill 7th grade
Spacewalk: A Study In Space Insulation
 St. Columba Catholic School Durango

Honorable Mention

Dakotah Andreatta 8th grade
What Effects The Transition Of A Static Spark?
 Exel Charter School Durango

Honorable Mention

Allyson Claybaugh 8th grade
Basis Of Weather: Air Pressure And Convection
 West Jefferson Middle School Conifer

Senior Earth & Space Sciences

First Place

Kristyn Rodzinyak 12th grade
Crater Characteristics: Water On Mars?
 Rampart High School Colorado Springs

Second Place

Farheen Rizvi 12th grade
Kinematics Of Highly Ionized High-Velocity Clouds
 Boulder High School Boulder

Third Place

Jessie Chavez 11th grade
Sprouts vs. Nodes: Establishing A Correlation Between Burn Severity And Sprout Density In Populus t
 Sierra Grande Jr/Sr High School Blanca

Honorable Mention

Tyler Benton 12th grade
Investigating Surface Geology Of The Anton Scarp Formation
 Stratton High School Stratton

Junior Engineering

First Place

Anand Natarajan 8th grade
Nozzle Design For A High Altitude Sounding Rocket
 Peak to Peak Charter School Lafayette

Second Place

Caitlin Mahanna 8th grade
Engineering A Roller Coaster
 Hayden Middle School Hayden

Third Place

Alexia Russell 8th grade
Heat Storage In Various Media
 Mount Garfield Middle School Clifton

Honorable Mention

Kristine Thompson 8th grade
DAGM (Diabetic Advanced Glucose Monitor) Deuce, "A Diabetic's Help Is On The Way!"
 West Jefferson Middle School Conifer

Team Award Nomination

Dominic Fuller-Rowell & Tim Cowley 8th grade
Alternative Transportation Through Magnetic Levitation and Propulsion
 Summit Middle School Boulder

Senior Engineering

First Place

Robert Glissmann 11th grade
Utilizing Audio Profile Matching Technology for Replicating Body Kinesis
 Peak to Peak Charter School Lafayette

Second Place

Adam Sidman 11th grade
Camera Stabilization: Take 2
 Palmer High School Colorado Springs

Third Place

Chris Messick 10th grade
Point And Click, Literally
 Sargent High School Monte Vista

Honorable Mention

Nathan Thomsen 12th grade
Robotic Roving: Robotic Navigation And Obstacle Avoidance Using Sensors
 The Classical Academy Colorado Springs

Junior Environmental Sciences

First Place

Sam Rotbart 7th grade
Modeling A Bioterrorism Attack: Factors Affecting The Distribution Of Airborne Bacteria
 Rocky Mountain Hebrew Academy Denver

Second Place

Kelsey Martin 7th grade
Waste Watchers
 Woodlin School Woodrow

Appendix 2

Third Place

Nathan Smock 7th grade
Sea Salt, Salt From the Sea, Does It Kill The Algae?
 Merino Jr/Sr High School Merino

Honorable Mention

Jacob Beu 7th grade
Gassed Out, Does Corn Fed, Or Prairie Grass Fed Cow Manure Produce The Most Methane?
 Merino Jr/Sr High School Merino

Honorable Mention

Conor May 7th grade
Clean Water For Developing Countries: Biosand Filtration And UV Disinfection
 St. Columba Catholic School Durango

Honorable Mention

Gwyneth Glissmann 8th grade
A 21st Century Problem: Carbon Dioxide
 Peak to Peak Charter School Lafayette

Team Award Nomination

Bryan Gillespie, Jason Wells, & Mason Miller 8th grade
Naturally Insulated Houses
 Beulah School Beulah

Team Award Nomination

Alexandra Dostal & Rebecca Siegel 8th grade
Methane Metropolis
 West Middle School Colorado Springs

Senior Environmental Sciences

First Place

Ananth Sridhar 11th grade
A Novel Method To Assist Regulators Determine Site-Specific WQC For Copper Using BLM And Bioassays
 Cherry Creek High School Greenwood Village

Second Place

Cody Caver 9th grade
Simple Arsenic Filtration Devise "Nails" Worlds Largest Mass Poisoning
 Woodlin School Woodrow

Third Place

Corey Swanson 12th grade
The Toxicity And Movement Of Pollutants In Underground Water
 Fort Lupton High School Fort Lupton

Honorable Mention

Tessa Nelson 9th grade
Salt, Sediment, And Storm Drains: Impacts To Urban Aquatic Invertebrates
 Denver School of the Arts Denver

Honorable Mention

Eric Keeling 10th grade
Freshwater, Road Salt, & Spineless Creatures
 La Veta Jr/Sr High School La Veta

Junior Mathematics & Computer Sciences

First Place

Skylar Anderson 8th grade
Always B Sharp, Never B Flat, But Sometimes B Fractal: Composing With Fractals
 North Middle School Colorado Springs

Second Place

Mindy Perkins 6th grade
At What Speed Does An Animation Appear To Travel Backwards?
 Peak to Peak Charter School Lafayette

Honorable Mention

Brian Bales 8th grade
Does The Distance From Affect The Speed Of A Local Area Network?
 Boltz Junior High School Fort Collins

Honorable Mention

Buddy Watson 6th grade
Does The 1st Takedown Win The Match?
 Trinity Lutheran School Fort Morgan

Senior Mathematics & Computer Sciences

First Place

Sarah Moll 12th grade
The Probability Of God
 La Veta Jr/Sr High School La Veta

Second Place

Megan Emmons 10th grade
Analysis Of Driver Strategy On Traffic Flow
 Del Norte High School Del Norte

Third Place

Chris Mullins 11th grade
Using The Subset Sum To Develop Secure Encryption Algorithms
 Meeker High School Meeker

Junior Medicine & Health

First Place

Matthew Eckstein 8th grade
Got Milk? The Efficacy Of Enteric Coatings.
 Summit Middle School Boulder

Second Place

Sarah Oden 6th grade
How Loud Is Too Loud: Can Personal CD Players Hurt Your Hearing?
 Monte Vista Middle School Monte Vista

Third Place

Aarthi Shankar 7th grade
How Does The Nutritional Content Of One's Diet Affect The Tensile Properties Of Human Hair?
 Mountain Ridge Middle School Colorado Springs

Honorable Mention

Erika Baker 7th grade
The Tooth And Nothing But The Tooth
 Merino Jr/Sr High School Merino

Appendix 2

Senior Medicine & Health

First Place
 Amanda Parker 12th grade
*Origin Of HIV Wildtype Revertants Following 3TC With-
 drawal*
 Cherry Creek High School Greenwood Village

Second Place
 Brittelle Bowers 12th grade
Expression Of MrC-1 By Cultured Macrophages
 Woodlin School Woodrow

Third Place
 Patrick Herklotz 12th grade
Tracking Dyslexia With A DNA Probe
 Pine Creek High School Colorado Springs

Team Award Nomination
 Michael Polmear & Lalith Polepeddi 11th grade
Proteomics Analysis Of Osteosarcoma Cells
 Cherry Creek High School Greenwood Village

Junior Microbiology

First Place
 Bryar DeSanti 7th grade
*Is the Hiss Worse Than Their Bite? The Risk Of Septicemia In
 A Model Of A Komodo Dragon's Bite*
 Merino Jr/Sr High School Merino

Second Place
 Madeline Camp-Drees 6th grade
Bacterial Study II Medicine Or Myth?
 La Veta Elementary School La Veta

Third Place
 Martha Carol 8th grade
*What Sponges Accumulate Salmonella, E. Coli, Coliform And
 Oh My!*
 Summit Middle School Boulder

Honorable Mention
 Elizabeth Thomas 6th grade
Bacteria vs. Cleaning Methods
 Miller Middle School Durango

Honorable Mention
 Todd Harper 8th grade
Germ Genocide
 Yuma Middle School Yuma

Senior Microbiology

First Place
 Brian Roth 12th grade
Where Tubulin Goes, It Glows
 Monarch High School Louisville

Second Place
 Andrew Fritzler 12th grade
*Antibiotic Resistance: A Study Of The Affect Of Genetic Mark-
 ers Used In Bioengineered Foods*
 Merino Jr/Sr High School Merino

Third Place
 Eris Moore 12th grade
*Old Traditions: New Applications Characterization Of Plants
 As Protease Inhibitors*
 Woodlin School Woodrow

Honorable Mention
 K J Ward 10th grade
What Lies Beneath: Bacteria In Bottled Water
 Genoa-Hugo School Hugo

Junior Physics

First Place
 J. Raleigh Burt 7th grade
*Dangerous Decision: The Consideration For Helmet Use At
 Any Speed*
 Sargent Junior High School Monte Vista

Second Place
 Matthew Piskorz 8th grade
Why Some Violins Are More Desirable Than Others
 Summit Middle School Boulder

Third Place
 Zoe Wallace 8th grade
Brrr! It's Cold Out There!
 Boltz Junior High School Ft. Collins

Honorable Mention
 Jeffrey Carlson 6th grade
Going For A Spin With Gravity
 Mountain View Core Knowledge School Canon City

Honorable Mention
 Jackson Beall 8th grade
The Effects Of Electricity On Water
 Excel Charter School Durango

Honorable Mention
 Anthony Meluso 6th grade
What Goes Up, Must Come Down! Archery Physics
 North Middle School Colorado Springs

Team Award Nomination
 Kaleen Masse & Elizabeth Ary 6th grade
Bouncing Balls
 McKinley Elementary School Canon City

Team Award Nomination
 Shelby Loflin & Paige Kelley 6th grade
How Hot Is Hot
 Walsh Elementary School Walsh

Senior Physics

First Place
 Meredith MacGregor 10th grade
*Raising the Rayleigh Number: Plumes and Circulation in Tur-
 bulent Thermal Convection*
 Fairview High School Boulder

Appendix 2

Second Place

David Miller 11th grade
A Study Of The Changes In Resistance Of Super Elastic NiTi
 Cherry Creek High School Greenwood Village

Third Place

Diana Qiu 10th grade
Giant Magneto-resistance
 Palmer High School Colorado Springs

Honorable Mention

Linell Griffin 12th grade
The Effects Of A Magnetic Field On The Viscosity Of Magneto-rheological Fluid
 Walsh High School Walsh

Honorable Mention

Adreanne Brungardt 10th grade
The Impinging Water Droplet
 Brush High School Brush

Honorable Mention

Parker King 9th grade
Arrows Skyward
 Coronado High School Colorado Springs

Team Award Nomination

Corey Kembel & David Unger 10th grade
A Study Of Dispersion States In Driven Surface Waves
 Brush High School Brush

Junior Zoology

First Place

Weston Charles 8th grade
Birds Of A Feather, Must They Flock Together: The Effects Of Socialization On Animal Growth
 Flagler Public School Flagler

Second Place

McKenzie Binder 7th grade
Fight The Bite With The Larvacide That's Right
 West Middle School Grand Junction

Third Place

Abigail Funk 8th grade
Keep The Ants Out Of Your Pants: An Analysis Of Natural Substance's Ability To Repel Ants
 Littleton Academy Littleton

Honorable Mention

Erik Schnaderbeck 6th grade
Do Solar Lunar Periods Predict Fishing Success?
 Sargent Junior High School Monte Vista

Honorable Mention

Ty Walter 6th grade
Are Parasites Bugging Your Cows?
 Cardinal Community Academy Keenesburg

Senior Zoology

First Place

D J Horton 10th grade
Biological Control Of A Common Corn Criminal; Phase II
 Hotchkiss High School Hotchkiss

Second Place

Allison McVey 9th grade
Monarch Murderer
 Springfield Jr/Sr High School Springfield

Third Place

Trevor Doyle 12th grade
Genotype And Its Effects On the Phenotype Of Oreohelix Snails
 Boulder

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

Military

United States Air Force ROTC

Parker King 9th grade
 padfolio, electronic spell checker, certificate, medallion,
 pen/pencil set
 Coronado High School Colorado Springs
Arrows Skyward

Anand Natarajan 8th grade
 padfolio, electronic spell checker, certificate, medallion,
 pen/pencil set
 Peak to Peak Charter School Lafayette
Nozzle Design For A High Altitude Sounding Rocket

Michael Xavier 7th grade
 padfolio, electronic spell checker, certificate, medallion,
 pen/pencil set
 Most Precious Blood Denver
The Differences In The Performance Of Certain Airfoil Designs

Cole Kembel 8th grade
 padfolio, electronic spell checker, certificate, medallion,
 pen/pencil set
 Brush High School Brush
Will Air Slots In A Wing Help Lift?

United States Army

Nathan Thomsen 12th grade
 \$50 savings bond, certificate
 The Classical Academy Colorado Springs
Robotic Roving: Robotic Navigation And Obstacle Avoidance Using Sensors

Erin McAuliffe 12th grade
 \$50 savings bond, certificate
 Monte Vista High School Monte Vista
The Effects Of Emotional Words: Supraliminal vs. Subliminal

Parker King 9th grade
 \$50 savings bond, certificate
 Coronado High School Colorado Springs
Arrows Skyward

Krystle Albert 11th grade
 \$50 savings bond, certificate
 Sierra Grande Jr/Sr High School Blanca
Dendroctonus ruffipennis: Evaluating The Standard Risk Assessment To Track A Killer

Forrest Friesen 10th grade
 \$100 savings bond, silver medallion, certificate
 Palmer High School Colorado Springs
Existing Technology Applied To Pseudoholographic Visual Immersion

United States Navy

United States Marine Corps

Dominic Fuller-Rowell & Tim Cowley 8th grade
 certificate, medallion
 Summit Middle School Boulder
Alternative Transportation Through Magnetic Levitation and Propulsion

Conor May 7th grade
 certificate, medallion
 St. Columba Catholic School Durango
Clean Water For Developing Countries: Biosand Filtration And UV Disinfection

Amanda Parker 12th grade
 \$75 gift certificate, certificate, medallion
 Cherry Creek High School Greenwood
Origin Of HIV Wildtype Revertants Following 3TC Withdrawal

Nissa Schmidt 12th grade
 \$75 gift certificate, certificate, medallion
 Merino Jr/Sr High School Merino
*The Psychopharmacological Effects Of Antidepressants On *Procambarus clarkii**

Anja Naudè 12th grade
 \$75 gift certificate, certificate, medallion
 Woodlin School Woodrow
Beacon Effects On DNA Capture Microarray Assays

Organizational

Agilent Technologies

Rachel Washam 6th grade
 Handheld digital voltmeter
 St. John the Evangelist School Loveland
Can I Make A D Size Battery That Will Last Longer Than An Energizer D Size Battery?

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

Tyler Keck 11th grade
 \$100, certificate
 Monte Vista High School Monte Vista
The Super Absorber: Finding The Best Polymer To Absorb Metals Out Of Water

Anne Thaemert 12th grade
 \$50, certificate
 Merino Jr/Sr High School Merino
Sarcodine Bioremediation In Streams: Phase II Determining The Uptake Of Heavy Metal Contaminants

Gwyneth Glissmann 8th grade
 \$100, certificate
 Peak to Peak Charter School Lafayette
A 21st Century Problem: Carbon Dioxide

Appendix 2

Tom McKenna \$50, certificate St. John the Evangelist School <i>What Is The Effect Of Precipitation On The Amount Of Dissolved Oxygen And The pH Level In Two Lakes?</i>	7 th grade Loveland	Rachel Washam \$100, \$100 to adult sponsor St. John the Evangelist School <i>Can I Make A D Size Battery That Will Last Longer Than An Energizer D Size Battery?</i>	6 th grade Loveland
American Association of University Women Iftin Abshir \$100 Littleton Academy <i>The Proof Is In The Print: An Analysis Of Fingerprint Patterns Within Different Human Ethnicities</i>	8 th grade Littleton	Alicia Vandembark \$50, \$50 to adult sponsor Fleming High School <i>The Effects Of Atmospheric Pressure On Cyclones</i>	10 th grade Fleming
American Chemical Society Colorado Local Section Kira Hicks \$100, certificate Gilpin County School <i>Hot Stuff: Measuring Heat Capacity</i>	7 th grade Black Hawk	Meredith MacGregor \$100, \$100 to adult sponsor Fairview High School <i>Raising the Rayleigh Number: Plumes and Circulation in Turbulent Thermal Convection</i>	10 th grade Boulder
American Institute of Chemical Engineers Rocky Mountain Section Conor May \$50 St. Columba Catholic School <i>Clean Water For Developing Countries: Biosand Filtration And UV Disinfection</i>	7 th grade Durango	American Water Works Association Rocky Mountain Section Tyler Keck \$50 US savings bond, plaque Monte Vista High School <i>The Super Absorber: Finding The Best Polymer To Absorb Metals Out Of Water</i>	11 th grade Monte Vista
Meredith MacGregor \$75 Fairview High School <i>Raising the Rayleigh Number: Plumes and Circulation in Turbulent Thermal Convection</i>	10 th grade Boulder	Ananth Sridhar \$75 US savings bond, plaque Cherry Creek High School <i>A Novel Method To Assist Regulators Determine Site-Specific WQC For Copper Using BLM And Bioassays</i>	11 th grade Greenwood
American Meteorological Society Denver/Boulder Chapter Kalena Umbhau \$50, certificate, Sky Watch West book Miller Middle School <i>Hydroelectricity</i>	6 th grade Durango	Cody Caver \$100 US savings bond, plaque Woodlin School <i>Simple Arsenic Filtration Devise "Nails" Worlds Largest Mass Poisoning</i>	9 th grade Woodrow
Meredith MacGregor \$50, certificate, Sky Watch West book Fairview High School <i>Raising the Rayleigh Number: Plumes and Circulation in Turbulent Thermal Convection</i>	10 th grade Boulder	Analex Corporation Megan Emmons \$100, certificate Del Norte High School <i>Analysis Of Driver Strategy On Traffic Flow</i>	10 th grade Del Norte
American Vacuum Society Rocky Mountain Chapter Dominic Fuller-Rowell & Tim Cowley \$50; \$50 to adult sponsor Summit Middle School <i>Alternative Transportation Through Magnetic Levitation and Propulsion</i>	8 th grade Boulder	Armbruster Associates Erin Hubl \$100 Coronado High School <i>Vertical Axis Wind Turbines</i>	9 th grade Colorado Springs
		ASM International David Miller \$50 Cherry Creek High School <i>A Study Of The Changes In Resistance Of Super Elastic NiTi</i>	11 th grade Greenwood
		Brandon Ohr \$75 Woodlin School <i>Tensile Strength And Charpy Impact Test Comparison Of Al-SiC Sand Cast Alloys</i>	9 th grade Woodrow

Appendix 2

Association for Women Geoscientists Denver Chapter

Alex Proietti 6th grade
\$50, rock sample
Holy Family Catholic School Grand Junction
Who Cracked The Gas?

Farheen Rizvi 12th grade
\$50, rock sample
Boulder High School Boulder
Kinematics Of Highly Ionized High-Velocity Clouds

Colorado Association of Science Teachers

Anand Natarajan 8th grade
\$50, certificate
Peak to Peak Charter School Lafayette
Nozzle Design For A High Altitude Sounding Rocket

Kaleb Kurtzer 7th grade
\$50, certificate
Merino Jr/Sr High School Merino
The Heat Is On: Floor Fires

D J Horton 10th grade
\$50, certificate
Hotchkiss High School Hotchkiss
Biological Control Of A Common Corn Criminal; Phase II

Robert Glissmann 11th grade
\$50, certificate
Peak to Peak Charter School Lafayette
Utilizing Audio Profile Matching Technology for Replicating Body Kinesis

Gerald Gromko Award

David Miller 11th grade
\$150, plaque
Cherry Creek High School Greenwood
A Study Of The Changes In Resistance Of Super Elastic NiTi

Colorado Biology Teachers' Association

Abigail Funk 8th grade
\$75, certificate
Littleton Academy Littleton
Keep The Ants Out Of Your Pants: An Analysis Of Natural Substance's Ability To Repel Ants

Balaji Sridhar 12th grade
\$75, certificate
Cherry Creek High School Greenwood
Oxidative DNA Damage During Symbiosis Between Sinorhizobium meliloti And The Alfalfa Plant

Colorado Dental Association

Erika Baker 7th grade
\$50, plaque
Merino Jr/Sr High School Merino
The Tooth And Nothing But The Tooth

Andrea Buxton 11th grade
\$50, plaque
McClave High School McClave
GOOD: Morning Breath

Casey Wood & Kyleigh Larson 9th grade
\$25 each team member; \$15 Wal-Mart gift card each
Springfield Jr/Sr High School Springfield
What Bacteria Grows Following Different Sanitization Methods For Toothbrushes

Colorado Division of Wildlife

Erik Schnaderbeck 6th grade
\$50, packet of Colorado Division of Wildlife products
Sargent Junior High School Monte Vista
Do Solar Lunar Periods Predict Fishing Success?

Trevor Doyle 12th grade
\$50, packet of Colorado Division of Wildlife products
Boulder
Genotype And Its Effects On the Phenotype Of Oreohelix Snails

Colorado Environmental Health Association

Sam Rotbart 7th grade
\$50, certificate
Rocky Mountain Hebrew Denver
Modeling A Bioterrorism Attack: Factors Affecting The Distribution Of Airborne Bacteria

Cody Caver 9th grade
\$100, certificate, invitation to exhibit at the CEHA Annual Educational Conference (\$350 value)
Woodlin School Woodrow
Simple Arsenic Filtration Devise "Nails" Worlds Largest Mass Poisoning

Colorado Foundation for Agriculture

Agriculture in the Classroom Award

Alex Brown 8th grade
\$50, certificate
Yuma Middle School Yuma
Can Zea Mays Leaf Emergence Be Predicted By Direction Of The Seed Placement?

Lyndee Charles 7th grade
\$50, certificate
Flagler Public School Flagler
How Deep Is To Deep

Colton Stephenson 12th grade
\$50, certificate
Akron High School Akron
Advantages Of Predicting Wheat Bread-Baking Functionality In Whole Kernels Using NIR Spectroscopy

Heather McGuire 12th grade
\$50, certificate
Woodlin School Woodrow
Utilizing GPS And HPLC/MS In Evaluating Animal Chemical Transport In The South Platte

Appendix 2

Colorado Geological Survey & Division of Minerals and Geology

Alex Proietti 6th grade
 \$150
 Holy Family Catholic School Grand Junction
Who Cracked The Gas?

Kristyn Rodzinyak 12th grade
 \$150
 Rampart High School Colorado Springs
Crater Characteristics: Water On Mars?

Sarah Boyle 8th grade
 rock samples, geologic maps (to be sent later)
 St. Columba Catholic School Durango
Wildfires: What Happens Next?

Tyler Benton 12th grade
 rock samples, geologic maps (to be sent later)
 Stratton High School Stratton
Investigating Surface Geology Of The Anton Scarp Formation

Colorado Medical Society

Kami Keeling 7th grade
 \$100, invitation to winners and their parents to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
 Ward Middle School Ordway
How Theobroma Cacao Affects Blood Pressure

Nissa Schmidt 12th grade
 \$100, invitation to winners and their parents to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay
 Merino Jr/Sr High School Merino
The Psychopharmacological Effects Of Antidepressants On Procambarus clarkii

Colorado Mineral Society

Alex Proietti 6th grade
 \$25, 2 mineral specimens and a book
 Holy Family Catholic School Grand Junction
Who Cracked The Gas?

Tara Gentz 8th grade
 \$40, 2 mineral specimens and a book
 Haxtun Junior High School Haxtun
What Are You Driving On

Kristyn Rodzinyak 12th grade
 \$25, 2 mineral specimens and a book
 Rampart High School Colorado Springs
Crater Characteristics: Water On Mars?

Tyler Benton 12th grade
 \$40, 2 mineral specimens and a book
 Stratton High School Stratton
Investigating Surface Geology Of The Anton Scarp Formation

Colorado Mycological Society

Cole Roberts 10th grade
 \$50
 Fleming High School Fleming
The Effects Of Elevated Soil Temperatures On Myccorhizoid Growth In Seedling Blue Spruce

**Colorado Science and Engineering Fair
 CSEF Alumni Award**

Jeffrey Carlson 6th grade
 \$25, certificate
 Mountain View Core Knowledge School Canon City
Going For A Spin With Gravity

Jessie Chavez 11th grade
 \$25, certificate
 Sierra Grande Jr/Sr High School Blanca
Sprouts vs. Nodes: Establishing A Correlation Between Burn Severity And Sprout Density In Populus t

Pioneers of Science – Abraham Maslow

Bryant Elrick 8th grade
 \$25, certificate
 Flagler Public School Flagler
aMAZEing Mice

Pioneers of Science - Albert Einstein

Bailey Younger 6th grade
 \$25, certificate
 Miller Middle School Durango
Paper Towel Testing

Pioneers of Science - Alfred Lothar Wegner

Tamara Jefferson, Tiffany Langevin & Amanda Archuleta 8th grade
 \$25, certificate
 Corwin Middle School Pueblo
Waves Of Destruction: Tsunamis

Pioneers of Science - Charles Babbage

Danica Cox 6th grade
 \$25, certificate
 Swink School Swink
Catch It If You Can

Pioneers of Science - Georges LCF Cuvier

Brandy Haller 7th grade
 \$25, certificate
 Woodlin School Woodrow
Bar Flies: Alcohol Dehydrogenase In Drosophila Melanogaster

Pioneers of Science - Hippocrates

Elizabeth Burger & Nicole Burger 6th grade
 \$25, certificate
 Harrison Elementary School Canon City
Do You Know You Are Blind?

Appendix 2

Pioneers of Science – James Buchanan Eads
 Rafe Paulson 8th grade
 \$25, certificate
 Sargent Junior High School Monte Vista
Grandpa's Helper

Pioneers of Science – Jonas Edward Salk
 Katie Newton 8th grade
 \$25, certificate
 Yuma Middle School Yuma
Does The Bio-Pruf Handle Really Work?

Pioneers of Science - Luther Burbank
 Madison Cerny 7th grade
 \$25, certificate
 Eagle County Charter Academy Edwards
Should Plants Stay Up Late?

Pioneers of Science – Marie Curie
 Noah Fischer 7th grade
 \$25, certificate
 St. Columba Catholic School Durango
The Effects Of De-Icers On Car Metal

Pioneers of Science - Rachel Louise Carson
 Connor Spaeth 6th grade
 \$25, certificate
 Pagosa Springs Intermediate Pagosa Springs
Litter Layer's Effect On The Hydrophobicity Of Soil After A Wildfire

Poster Art Contest
 Allison McVey 9th grade
 \$100, certificate
 Springfield Jr/Sr High School Springfield

Ralph Desch Memorial Technical Writing Award
 Kristyn Rodzinyak 12th grade
 \$100, certificate
 Rampart High School Colorado Springs
Crater Characteristics: Water On Mars?

Student Choice Award
 Gwyneth Glissmann 8th grade
 \$50, certificate, trophy
 Peak to Peak Charter School Lafayette
A 21st Century Problem: Carbon Dioxide
 Chris Messick 10th grade
 \$50, certificate, trophy
 Sargent High School Monte Vista
Point And Click, Literally
 Tim Schneider 9th grade
 \$50, certificate, trophy
 Durango High School Durango
Robonomous

Colorado Scientific Society
 Gwyneth Glissmann 8th grade
 \$50
 Peak to Peak Charter School Lafayette
A 21st Century Problem: Carbon Dioxide

Alex Proietti 6th grade
 \$75
 Holy Family Catholic School Grand Junction
Who Cracked The Gas?

Tyler Benton 12th grade
 \$75
 Stratton High School Stratton
Investigating Surface Geology Of The Anton Scarp Formation

Kristyn Rodzinyak 12th grade
 \$100
 Rampart High School Colorado Springs
Crater Characteristics: Water On Mars?

Colorado State University
Department of Biochemistry and Molecular Biology
 Amanda Parker 12th grade
 \$100, certificate
 Cherry Creek High School Greenwood
Origin Of HIV Wildtype Revertants Following 3TC Withdrawal

Department of Chemistry
 Madison Krien 7th grade
 \$100, certificate
 Woodlin School Woodrow
A Penny's Worth

Alex West 11th grade
 \$100, certificate
 Conifer High School Conifer
Development Of A Rapid Cellar Detection Method For 4-Ethyl Phenol In Red Wine Fermentations

Department of Horticulture and Landscape Architecture
 Allie Martin 6th grade
 Rebekkah McCaleb 6th grade
 \$100
 Woodlin School Woodrow
Spuds Gone Bad
 Kirk Wilkinson 9th grade
 \$100
 Monte Vista High School Monte Vista
Want Vitamin C? Eat A Potato!

Appendix 2

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

Weston Charles	8 th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate, gold medallion	
Flagler Public School	Flagler
<i>Birds Of A Feather, Must They Flock Together: The Effects Of Socialization On Animal Growth</i>	
Jace Rogers	8 th grade
\$50 from CVMA, \$50 from CVMA Auxiliary, certificate, gold medallion	
Yuma Middle School	Yuma
<i>Can BVD Affect A Cow Herd Even If Prevention Measures Are Taken?</i>	

Colorado-Wyoming Society of American Foresters

Danielle Burke	7 th grade
\$50 savings bond	
Windsor Charter Academy	Windsor
<i>To Burn, Or Not To Burn, That Is The Question</i>	
Krystle Albert	11 th grade
\$50 savings bond	
Sierra Grande Jr/Sr High School	Blanca
<i>Dendroctonus ruffipennis: Evaluating The Standard Risk Assessment To Track A Killer</i>	
Jessie Chavez	11 th grade
\$50 savings bond	
Sierra Grande Jr/Sr High School	Blanca
<i>Sprouts vs. Nodes: Establishing A Correlation Between Burn Severity And Sprout Density In Populus t</i>	

Eastman Kodak Company

Michael Xavier	7 th grade
APS camera	
Most Precious Blood	Denver
<i>The Differences In The Performance Of Certain Airfoil Designs</i>	
Lisa Han	8 th grade
APS camera	
Summit Middle School	Boulder
<i>Sniffing Out The Danger: Benzaldehyde Kills C. elegans Eggs</i>	

Eppler Family

Kristine Thompson	8 th grade
microprocessor kit and digital multimeter	
West Jefferson Middle School	Conifer
<i>DAGM (Diabetic Advanced Glucose Monitor) Duece, "A Diabetic's Help Is On The Way!"</i>	
Jonathan Taing & Jack Bryan	8 th grade
microprocessor kit and digital multimeter	
Bookcliff Middle School	Grand Junction
<i>Solar Panel Efficiency</i>	

Fort Collins Conservation District

Sarah Boyle	8 th grade
\$50, plaque	
St. Columba Catholic School	Durango
<i>Wildfires: What Happens Next?</i>	
Kaitlyn Lingus	9 th grade
\$50, plaque	
Branson School	Branson
<i>One "Mite"y Mission: Biological Compensation Suppression Of Convolvulus arvensis Implementing Host-Specific Aceria malherbae</i>	

Intel Foundation

J. Raleigh Burt	7 th grade
laptop computer (to be mailed)	
Sargent Junior High School	Monte Vista
<i>Dangerous Decision: The Consideration For Helmet Use At Any Speed</i>	
Robert Glissmann	11 th grade
laptop computer (to be mailed)	
Peak to Peak Charter School	Lafayette
<i>Utilizing Audio Profile Matching Technology for Replicating Body Kinesis</i>	

Lockheed Martin

Anand Natarajan	8 th grade
model rocket and \$100 US savings bond	
Peak to Peak Charter School	Lafayette
<i>Nozzle Design For A High Altitude Sounding Rocket</i>	

Teacher of the Year Award

Penny Propst	
\$3,00 grant to be used to further their school's science fair program	
Merino Jr/Sr High School	Merino

Luzenac Group

Dominic Fuller-Rowell & Tim Cowley	8 th grade
\$75	
Summit Middle School	Boulder
<i>Alternative Transportation Through Magnetic Levitation and Propulsion</i>	
Kalena Umbhau	6 th grade
\$175	
Miller Middle School	Durango
<i>Hydroelectricity</i>	
Alex West	11 th grade
\$75	
Conifer High School	Conifer
<i>Development Of A Rapid Cellar Detection Method for 4-Ethyl Phenol In Red Wine Fermentations</i>	
Tucker Dunivan	9 th grade
\$175	
Walsh High School	Walsh
<i>Fuel Of The Future, Can Hydrogen Be It</i>	

Appendix 2

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

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

Rocky Mountain Association of Geologists

Alex Proietti 6th grade
 cash award
 Holy Family Catholic School Grand Junction
Who Cracked The Gas?

Tyler Benton 12th grade
 cash award
 Stratton High School Stratton
Investigating Surface Geology Of The Anton Scarp Formation

Kristyn Rodzinyak 12th grade
 cash award
 Rampart High School Colorado Springs
Crater Characteristics: Water On Mars?

Rocky Mountain Inventors Association

Ben Busby 7th grade
 \$50
 North Middle School Colorado Springs
The Effects Of Echinacea On Tumor Cells

Chris Messick 10th grade
 \$50
 Sargent High School Monte Vista
Point And Click, Literally

Robert Glissmann 11th grade
 \$50
 Peak to Peak Charter School Lafayette
Utilizing Audio Profile Matching Technology for Replacing Body Kinesis

Outstanding Innovations Award

DJ Horton 10th grade
 Certificate
 Hotchkiss High School Hotchkiss
Biological Control Of A Common Corn Criminal, Phase II

Rocky Mountain Water Environment Association

Ben Armstrong 7th grade
 \$100 savings bond
 Monte Vista Middle School Monte Vista
Antibiotic Resistance In Our Water

Conor May 7th grade
 \$250 savings bond
 St. Columba Catholic School Durango
Clean Water For Developing Countries: Biosand Filtration And UV Disinfection

Cody Caver 9th grade
 \$100 savings bond
 Woodlin School Woodrow
Simple Arsenic Filtration Devise "Nails" Worlds Largest Mass Poisoning

Ananth Sridhar 11th grade
 \$250, savings bond
 Cherry Creek High School Greenwood
A Novel Method To Assist Regulators Determine Site-Specific WQC For Copper Using BLM And Bioassays

Society of Manufacturing Engineers

Chapter 354, Front Range Electro-Mechanical

Rachel Washam 6th grade
 \$200 savings bond, certificate, recognition by local chapter
 St. John the Evangelist School Loveland
Can I Make A D Size Battery That Will Last Longer Than An Energizer D Size Battery?

Dominic Fuller-Rowell & Tim Cowley 8th grade
 \$200 savings bond, certificate, recognition by local chapter
 Summit Middle School Boulder
Alternative Transportation Through Magnetic Levitation and Propulsion

Chris Messick 10th grade
 \$300 savings bond, certificate, recognition by local chapter
 Sargent High School Monte Vista
Point And Click, Literally

Society of Women Engineers Rocky Mountain Section

Kelsey Martin 7th grade
 \$50, certificate
 Woodlin School Woodrow
Waste Watchers

Appendix 2

Kristine Thompson 8th grade
 \$75, certificate
 West Jefferson Middle School Conifer
DAGM (Diabetic Advanced Glucose Monitor) Deuce, "A Diabetic's Help Is On The Way!"

Meredith MacGregor 10th grade
 \$50, certificate
 Fairview High School Boulder
Raising the Rayleigh Number: Plumes and Circulation in Turbulent Thermal Convection

Megan Emmons 10th grade
 \$75, certificate
 Del Norte High School Del Norte
Analysis Of Driver Strategy On Traffic Flow

Soil & Water Conservation Society Colorado Chapter

Sarah Boyle 8th grade
 \$25, certificate, ribbon
 St. Columba Catholic School Durango
Wildfires: What Happens Next?

Clint Hervert 7th grade
 \$50, certificate, ribbon
 Eagle County Charter Academy Edwards
Leftovers Are Not Just For Dinner Anymore

Cole Roberts 10th grade
 \$25, certificate, ribbon
 Fleming High School Fleming
The Effects Of Elevated Soil Temperatures On Myccorhizoid Growth In Seedling Blue Spruce

Kaitlyn Lingus 9th grade
 \$50, certificate, ribbon
 Branson School Branson
One "Mite"y Mission: Biological Compensation Suppression Of Convolvulus arvensis Implementing Host-Specific Aceria malherbae

Connor Spaeth 6th grade
 certificate
 Mackintosh Academy Littleton
The Litter Layer's Effect On The Hydrophobicity Of Soil After A Wildfire

United States Department of Commerce

Mary Beth Miles 12th grade
 opportunity for summer employment with Department of Commerce with possibility for future continuing employment
 Monte Vista High School Monte Vista
Not Too Sweet: Lead Content In Mexican Candy

Ryan Schilt 12th grade
 alternate for summer employment with Department of Commerce
 Basalt High School Basalt
A Novel Mathematical Analysis Into The Constant Of Gravity With Newtonian Mechanics

United States Geological Survey

Alex Proietti 6th grade
 reference book, mineral specimen
 Holy Family Catholic School Grand Junction
Who Cracked The Gas?

Cody Caver 9th grade
 reference book, mineral specimen
 Woodlin School Woodrow
Simple Arsenic Filtration Devise "Nails" Worlds Largest Mass Poisoning

University of Colorado Health Sciences Center Medical Scientist Training Program

Michael Polmear & Lalith Polepeddi 11th grade
 \$50
 Cherry Creek High School Greenwood
Proteomics Analysis Of Osteosarcoma Cells

Andrew Fritzler 12th grade
 \$50
 Merino Jr/Sr High School Merino
Antibiotic Resistance: A Study Of The Affect Of Genetic Markers Used In Bioengineered Foods

Visible Productions

Erika Baker 7th grade
 \$50
 Merino Jr/Sr High School Merino
The Tooth And Nothing But The Tooth

Patrick Herklotz 12th grade
 \$75
 Pine Creek High School Colorado Springs
Tracking Dysleixa With A DNA Probe

Yale Science and Engineering Association

Adam Sidman 11th grade
 certificate, pewter medallion (to be mailed)
 Palmer High School Colorado Springs
Camera Stabilization: Take 2

Zonta Club of Boulder County

Kaleen Masse & Elizabeth Ary 6th grade
 \$100
 McKinley Elementary School Canon City
Bouncing Balls

Scholarships

Adams State College

Melanie Twiss 11th grade
 one-year resident tuition and fees
 Canon City High School Canon City
Reflexes And Sensitivity

Ashley Apple 12th grade
 one-year resident tuition and fees
 Canon City High School Canon City
Effects of Different Fertilizers on Plants - Dieffenbachia maculate 'camilla'

Appendix 2

<p>Rosie Li one-year resident tuition and fees Palmer High School <i>Where's The Endpoint? Using Lasers To Help Detect The End Of Titration</i></p>	<p>10th grade Colorado Springs</p>	<p>Megan Emmons full, four-year resident tuition scholarship Del Norte High School <i>Analysis Of Driver Strategy On Traffic Flow</i></p>	<p>10th grade Del Norte</p>
<p>Tyler Benton one-year resident tuition and fees Stratton High School <i>Investigating Surface Geology Of The Anton Scarp Formation</i></p>	<p>12th grade Stratton</p>	<p>Danielle Gonzales full, four-year resident tuition scholarship Grand Valley High School <i>Water Quality Of The Colorado River From Glenwood Springs To Parachute</i></p>	<p>9th grade Parachute</p>
<p>Nathan Thomsen one-year resident tuition and fees The Classical Academy <i>Robotic Roving: Robotic Navigation And Obstacle Avoidance Using Sensors</i></p>	<p>12th grade Colorado Springs</p>	<p>Adreanne Brungardt full, four-year resident tuition scholarship Brush High School <i>The Impinging Water Droplet</i></p>	<p>10th grade Brush</p>
Intel Foundation			
<i>Ryan Patterson Scholarship</i>			
<p>Heather McGuire one-year resident tuition and fees Woodlin School <i>Utilizing GPS And HPLC/MS In Evaluating Animal Chemical Transport In The South Platte</i></p>	<p>12th grade Woodrow</p>	<p>Sarah Moll \$2,000 scholarship to be used at a college of student's choice La Veta Jr/Sr High School <i>The Probability Of God</i></p>	<p>12th grade La Veta</p>
University of Colorado at Boulder			
<i>College of Engineering and Applied Science</i>			
<p>Forrest Friesen one-year resident tuition and fees Palmer High School <i>Existing Technology Applied To Pseudoholographic Visual Immersion</i></p>	<p>10th grade Colorado Springs</p>	<p>Farheen Rizvi \$1,500 scholarship per year for four years Boulder High School <i>Kinematics Of Highly Ionized High-Velocity Clouds</i></p>	<p>12th grade Boulder</p>
<p>Jon Monserud one-year resident tuition and fees Nederland Jr/Sr High <i>Take A Deeep Breath</i></p>	<p>12th grade Nederland</p>	<p>Tim Schneider \$1,500 scholarship per year for four years Durango High School <i>Robotonomous</i></p>	<p>9th grade Durango</p>
<p>Eris Moore one-year resident tuition and fees Woodlin School <i>Old Traditions: New Applications Characterization Of Plants As Protease Inhibitors</i></p>	<p>12th grade Woodrow</p>	<p>Robert Glissmann \$2,500 scholarship per year for four years Peak to Peak Charter School <i>Utilizing Audio Profile Matching Technology for Replicating Body Kinesis</i></p>	<p>11th grade Lafayette</p>
<p>Linell Griffin one-year resident tuition and fees Walsh High School <i>The Effects Of A Magnetic Field On The Viscosity Of Magnetorheological Fluid</i></p>	<p>12th grade Walsh</p>	<p>Chris Messick \$4,000 scholarship per year for four years Sargent High School <i>Point And Click, Literally</i></p>	<p>10th grade Monte Vista</p>
<p>D J Horton one-year resident tuition and fees Hotchkiss High School <i>Biological Control Of A Common Corn Criminal; Phase II</i></p>	<p>10th grade Hotchkiss</p>		
Colorado School of Mines			
<p>Tyler Benton full, four-year resident tuition scholarship Stratton High School <i>Investigating Surface Geology Of The Anton Scarp Formation</i></p>	<p>12th grade Stratton</p>		
<p>Adam Sidman full, four-year resident tuition scholarship Palmer High School <i>Camera Stabilization: Take 2</i></p>	<p>11th grade Colorado Springs</p>		
Science Service			
American Psychology Association			
<i>Discovery Channel, Inc.</i>			
<i>Discovery Young Scientist Challenge</i>			
<p>Nissa Schmidt certificate Merino Jr/Sr High School <i>The Psychopharmacological Effects Of Antidepressants On Procambarus clarkii</i></p>	<p>12th grade Merino</p>		
Discovery Channel, Inc.			
<i>Discovery Young Scientist Challenge</i>			
<p>Jaimie Jennings certificate, lapel pin, nomination to enter the DCYSC national competition North Middle School <i>Head For The Hills</i></p>	<p>8th grade Colorado Springs</p>		

Appendix 2

Alex Brown certificate, lapel pin, nomination to enter the DCYSC national competition Yuma Middle School <i>Can Zea Mays Leaf Emergence Be Predicted By Direction Of The Seed Placement?</i>	8 th grade Yuma	Weston Charles certificate, lapel pin, nomination to enter the DCYSC national competition Flagler Public School <i>Birds Of A Feather, Must They Flock Together: The Effects Of Socialization On Animal Growth</i>	8 th grade Flagler
Katelyn Yowell certificate, lapel pin, nomination to enter the DCYSC national competition Genoa-Hugo School <i>Candy Chromatography</i>	6 th grade Hugo	Karina Schorr certificate, lapel pin, nomination to enter the DCYSC national competition Eagle County Charter Academy <i>Road Narrows</i>	7 th grade Edwards
Helen Killeen certificate, lapel pin, nomination to enter the DCYSC national competition Summit Middle School <i>Solar Flux: The Ultimate DJ</i>	8 th grade Boulder	Robert McCall certificate, lapel pin, nomination to enter the DCYSC national competition Lone Star Junior High <i>The Effect Of Crop Residue On Millet Germination</i>	7 th grade Otis
Anand Natarajan certificate, lapel pin, nomination to enter the DCYSC national competition Peak to Peak Charter School <i>Nozzle Design For A High Altitude Sounding Rocket</i>	8 th grade Lafayette	Crystal Purcell certificate, lapel pin, nomination to enter the DCYSC national competition Pagosa Springs Intermediate <i>Do You Know Your H2O?</i>	6 th grade Pagosa Springs
Sam Rotbart certificate, lapel pin, nomination to enter the DCYSC national competition Rocky Mountain Hebrew <i>Modeling A Bioterrorism Attack: Factors Affecting The Distribution Of Airborne Bacteria</i>	7 th grade Denver	Samantha Wadsworth certificate, lapel pin, nomination to enter the DCYSC national competition Mountain Ridge Middle School <i>The Effects Of Earthquakes On Different Shaped Buildings</i>	6 th grade Colorado Springs
Skylar Anderson certificate, lapel pin, nomination to enter the DCYSC national competition North Middle School <i>Always B Sharp, Never B Flat, But Sometimes B Fractal: Composing With Fractals</i>	8 th grade Colorado Springs	Caitlin Mahanna certificate, lapel pin, nomination to enter the DCYSC national competition Hayden Middle School <i>Engineering A Roller Coaster</i>	8 th grade Hayden
Matthew Eckstein certificate, lapel pin, nomination to enter the DCYSC national competition Summit Middle School <i>Got Milk? The Efficacy Of Enteric Coatings.</i>	8 th grade Boulder	Kelsey Martin certificate, lapel pin, nomination to enter the DCYSC national competition Woodlin School <i>Waste Watchers</i>	7 th grade Woodrow
Bryar DeSanti certificate, lapel pin, nomination to enter the DCYSC national competition Merino Jr/Sr High School <i>Is the Hiss Worse Than Their Bite? The Risk Of Septicemia In A Model Of A Komodo Dragon's Bite</i>	7 th grade Merino	Mindy Perkins certificate, lapel pin, nomination to enter the DCYSC national competition Peak to Peak Charter School <i>At What Speed Does An Animation Appear To Travel Backwards?</i>	6 th grade Lafayette
J. Raleigh Burt certificate, lapel pin, nomination to enter the DCYSC national competition Sargent Junior High School <i>Dangerous Decision: The Consideration For Helmet Use At Any Speed</i>	7 th grade Monte Vista	Sarah Oden certificate, lapel pin, nomination to enter the DCYSC national competition Monte Vista Middle School <i>How Loud Is Too Loud: Can Personal CD Players Hurt Your Hearing?</i>	6 th grade Monte Vista
		Madeline Camp-Drees certificate, lapel pin, nomination to enter the DCYSC national competition La Veta Elementary School <i>Bacterial Study II Medicine Or Myth?</i>	6 th grade La Veta

Appendix 2

Matthew Piskorz 8th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition

Summit Middle School Boulder
Why Some Violins Are More Desirable Than Others

McKenzie Binder 7th grade
certificate, lapel pin, nomination to enter the DCYSC national
competition

West Middle School Grand Junction
Fight The Bite With The Larvacide That's Right

Eastman Kodak Company

Leslie Dias & Tracey Fischer 11th grade
Kodak Digital 35mm One Time Use Camera for student &
adult sponsor, certificate

Centaurus High School Lafayette
Biomedical Applications Of Shape Memory Polymers (SMP)

Herbert Hoover Presidential Library Association

Herbert Hoover Young Engineer Award

Robert Glissmann 11th grade
medallion, certificate

Peak to Peak Charter School Lafayette
*Utilizing Audio Profile Matching Technology for Replicating
Body Kinesis*

Intel

Intel Excellence in Computer Science Award

Sarah Moll 12th grade
\$200, certificate

La Veta Jr/Sr High School La Veta
The Probability Of God

International Society for Optical Engineering

Forrest Friesen 10th grade
Certificate, entry into a cash award drawing

Palmer High School Colorado Springs
*Existing Technology Applied To Pseudoholographic Visual
Immersion*

Mu Alpha Theta

Chris Mullins 11th grade
certificate

Meeker High School Meeker
*Using The Subset Sum To Develop Secure Encryption
Algorithms*

National Society of Professional Engineers

Innovative Engineering Award

Robert Glissmann 11th grade
certificate, lapel pin, supporting materials

Peak to Peak Charter School Lafayette
*Utilizing Audio Profile Matching Technology for Replicating
Body Kinesis*

Ricoh Corporation

Ricoh Sustainability Development Award

Robin Blenden 11th grade
certificate, one-year subscription to Science News, entry into a
drawing for a Ricoh digital camera

Monte Vista High School Monte Vista
Selecting Oils To Make Better Biodiesel

Scientific American

Nissa Schmidt 12th grade
one-year subscription to Scientific American, certificate

Merino Jr/Sr High School Merino
*The Psychopharmacological Effects Of Antidepressants
On Procambarus clarkii*

D J Horton 10th grade
one-year subscription to Scientific American, certificate

Hotchkiss High School Hotchkiss
Biological Control Of A Common Corn Criminal; Phase II

Robert Glissmann 11th grade
one-year subscription to Scientific American, certificate

Peak to Peak Charter School Lafayette
*Utilizing Audio Profile Matching Technology for Replicating
Body Kinesis*

Michael Polmear & Lalith Polepeddi 11th grade
one-year subscription to Scientific American, certificate

Cherry Creek High School Greenwood
Proteomics Analysis Of Osteosarcoma Cells

Society for In Vitro Biology

Michael Polmear & Lalith Polepeddi 11th grade
certificate, publication of project in SIVB newsletter or
web site

Cherry Creek High School Greenwood
Proteomics Analysis Of Osteosarcoma Cells

United States Metric Association

Madison Cerny 7th grade
Certificate

Eagle County Charter Academy Edwards
Should Plants Stay Up Late?

United States Public Health Service

Patrick Herklotz 12th grade
certificate

Pine Creek High School Colorado Springs
Tracking Dyslexia With A DNA Probe

Water Environment Federation

Stockholm Junior Water Prize

Ananth Sridhar 11th grade
certificate, nomination to enter the Stockholm Junior Water
Prize national competition

Cherry Creek High School Greenwood
*A Novel Method To Assist Regulators Determine Site-Specific
WQC For Copper Using BLM And Bioassays*

Appendix 3
2004/2005 Expense Report
September 1, 2004 – August 31, 2005

Category Descriptions	Budget	Actual	Difference
INCOME			
Sponsorships	\$29,540.00	\$23,491.00	(\$6,049.00)
Contributions	\$3,100.00	\$1,817.88	(\$1,282.12)
In-Kind	\$7,550.00	\$9,410.24	\$1,860.24
Registrations	\$11,165.00	\$11,830.00	\$665.00
Grants	\$6,100.00	\$9,600.00	\$3,500.00
General Income			
<i>Interest</i>	\$200.00	\$308.09	\$108.09
<i>Sales</i>	\$700.00	\$1,327.00	\$627.00
<i>RSF Outreach Funds</i>	\$0.00	\$0.00	\$0.00
<i>Pioneers of Science Awards</i>	\$0.00	\$250.00	\$250.00
<i>Teacher of the Year Award</i>	<u>\$3,000.00</u>	<u>\$3,000.00</u>	<u>\$0.00</u>
TOTAL General Income	\$3,900.00	\$4,885.09	\$985.09
TOTAL INCOME	\$61,355.00	\$61,034.21	(\$320.79)
EXPENSES			
Awards Ceremony			
Cash Awards	\$9,850.00	\$10,125.00	(275.00)
Other Awards	\$7,500.00	\$6,549.10	\$950.90
Photos	\$250.00	\$355.25	(\$105.25)
Press Release	\$450.00	\$397.00	\$53.00
Program	\$200.00	\$301.29	(\$101.29)
Room Rental	<u>\$600.00</u>	<u>\$617.50</u>	<u>(17.50)</u>
TOTAL Awards Ceremony	\$18,850.00	\$18,345.14	\$504.86
CSSF, Inc. Board			
Communications	\$480.00	\$472.96	\$7.04
Equipment	\$0.00	\$0.00	\$0.00
Meetings	\$900.00	\$959.06	(\$59.06)
Operations	\$6,305.00	\$6,714.29	(\$409.29)
Services	\$100.00	\$200.00	(\$100.00)
Supplies	<u>\$250.00</u>	<u>\$213.87</u>	<u>\$36.13</u>
TOTAL CSSF, Inc. Board	\$8,035.00	\$8,560.18	(\$525.18)
Finalists			
Activities	\$2,060.00	\$2,409.53	(\$349.53)
Publications	\$1,300.00	\$1,849.58	(\$549.58)
Registration	\$4,900.00	\$8,315.01	(\$3,415.01)
Room Rental	\$700.00	\$675.00	\$25.00
50 th Anniversary	\$500.00	\$179.56	\$320.44
Transportation	<u>\$800.00</u>	<u>\$942.00</u>	<u>(\$142.00)</u>
TOTAL Finalists	\$10,260.00	\$14,370.68	(\$4,110.68)

Appendix 3
2004/2005 Expense Report
September 1, 2004 – August 31, 2005

Category Description	Budget	Actual	Difference
ISEF			
Affiliation	\$500.00	\$501.20	(\$1.20)
Travel	<u>\$6,660.00</u>	<u>\$6,014.29</u>	<u>\$645.71</u>
TOTAL ISEF	\$7,160.00	\$6,515.49	\$644.51
Judging			
Communications	\$1,000.00	\$769.53	\$230.47
Room Rental	\$135.00	\$95.00	\$40.00
Travel	\$250.00	\$212.09	\$37.91
Supplies	\$500.00	\$565.33	(\$65.33)
Thank Yous	<u>\$2,600.00</u>	<u>\$3,099.18</u>	<u>(\$499.18)</u>
TOTAL Judging	\$4,485.00	\$4,741.13	(\$256.13)
Outreach	\$1,000.00	\$1,464.51	(\$464.51)
RSF Outreach	\$0.00	\$0.00	\$0.00
CSEF Expenses			
Adult Sponsors	\$400.00	\$241.24	\$158.76
Advisory Council	\$50.00	\$36.24	\$13.76
Fund Raising	\$100.00	\$242.29	(\$142.29)
Personnel	\$5,540.00	\$6,519.63	(\$979.63)
Publicity	\$200.00	\$168.75	\$31.25
Regional Fair Directors	\$200.00	\$102.69	\$97.31
Supplies	\$200.00	\$369.44	(\$169.44)
Volunteers	<u>\$1,300.00</u>	<u>\$1,124.41</u>	<u>\$175.59</u>
TOTAL CSEF Expenses	\$7,990.00	\$8,804.69	(\$814.69)
SRC/Display and Safety			
Communications	\$100.00	\$158.26	(\$58.26)
Meetings	\$600.00	\$748.23	(\$148.23)
Supplies	<u>\$100.00</u>	<u>\$88.91</u>	<u>\$11.09</u>
TOTAL SRC/Display and Safety	\$800.00	\$995.40	(\$195.40)
TOTAL EXPENSES	\$58,580.00	\$63,797.22	(\$5,217.22)
OVERALL TOTAL	\$2,775.00	(\$2,763.01)	