

Colorado Science and Engineering Fair

for Colorado students in grades 6 - 12

held

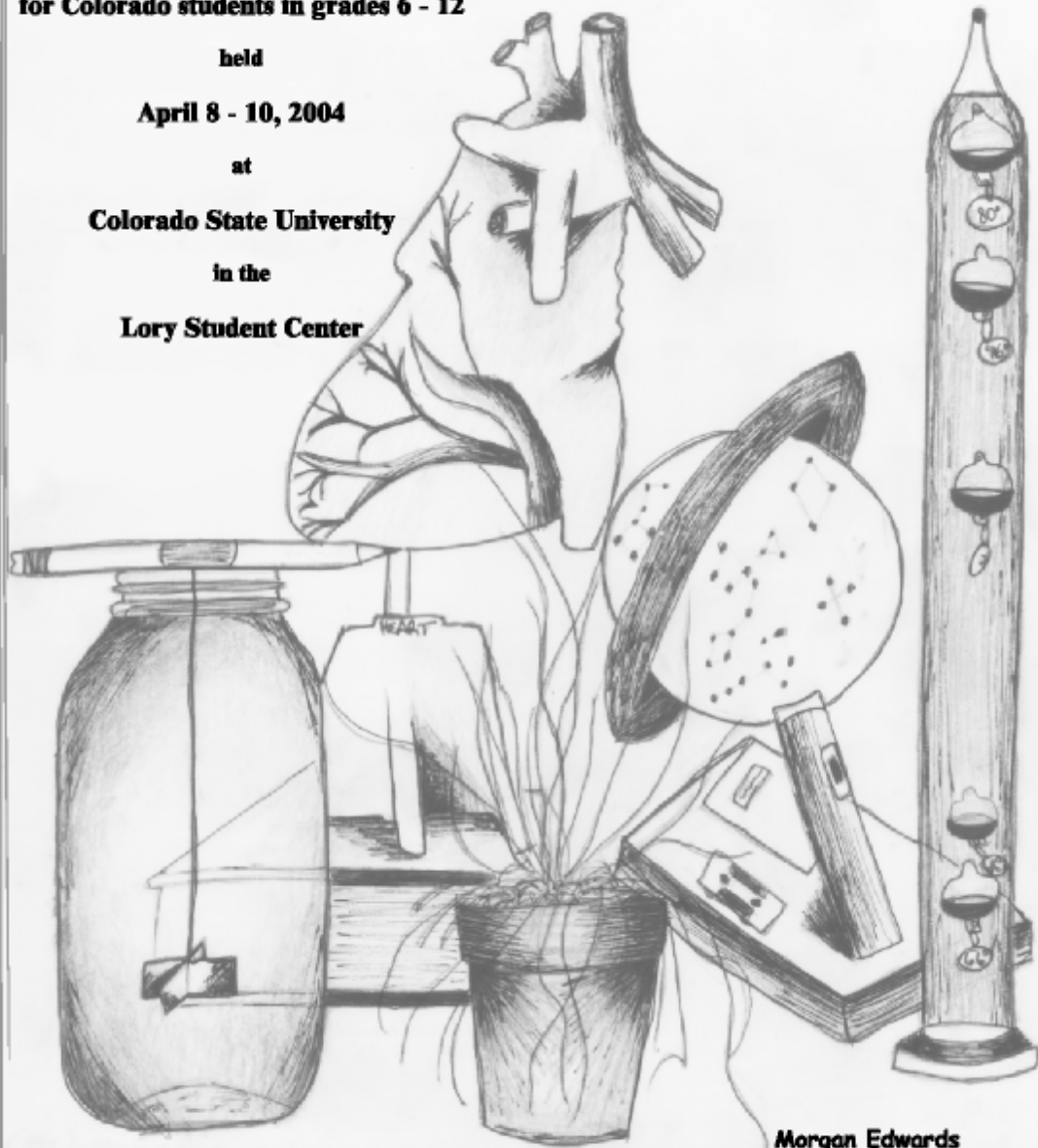
April 8 - 10, 2004

at

Colorado State University

in the

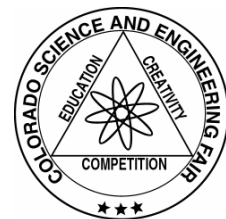
Lory Student Center



**Morgan Edwards
High Country Christian Academy
Colorado Springs, CO**

Colorado State Science Fair, Inc.

2004 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, 2004
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

2004 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 them 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. The judges' interviews allow the finalists 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 speak with working scientists, CSEF finalists compete for awards in the categories of Botany; Chemistry; Earth & Space Sciences; Engineering; Environmental Sciences; Health & Behavioral Sciences; Mathematics & Computer Sciences; Microbiology; Physics; and Zoology – either with an individual or 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).

2004 COLORADO SCIENCE AND ENGINEERING FAIR

The forty-ninth Colorado Science and Engineering Fair was held at Lory Student Center on the Colorado State University campus on April 8 – 10, 2004.

This year, CSEF winners were chosen from among 284 projects represented by 313 finalists from 113 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 40 businesses, professional societies, and government agencies provided more than 100 of their own representatives to judge exhibits based on their own criteria. They judged the student finalists and conferred Special Awards which represented an aspect of the bestowing organization. These included college scholarships, offers of summer employment, field trips, cash, savings bonds, and calculators. Over 1,000 people attended the Awards Ceremony this year.

The 2004 Colorado Science and Engineering Fair had 20 sponsors. Sponsors included 5 Platinum Sponsors (providing over \$2,500 of support), 7 Gold Sponsors (\$1,000 – \$2,500 of support each), 1 Silver Sponsor (\$750 - \$1,000 of support each), and 7 Regular Sponsors (\$500 - \$750 of support each). In addition, there were 11 Financial Contributors (less than \$500 each). In addition, 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 ten one-year full resident tuition and fees scholarships. 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 their choice.

This year, the CSEF was honored to have guest speaker, Mr. Richard Foch. Mr. Foch is the head of the Vehicle Research Section in the Offboard Countermeasures (OCM) branch of the US Naval Research Laboratory.

Mr. Foch has been a great supporter of small unmanned aircraft for civilian and military applications. His recent military efforts include the flight testing of the first biological agent detector to be successfully miniaturized and integrated into an unmanned aircraft.

Mr. Foch's work is also reaching out beyond the Earth, as he is a key member of technology development teams for NASA Mars Airplane concepts, which will one day enable the exploration of the Martian surface by sensors carried aboard an autonomous, unmanned aircraft.

(See Appendix 1 – 2004 CSEF Schedule)

2004 COLORADO SCIENCE AND ENGINEERING FAIR TOP AWARDS

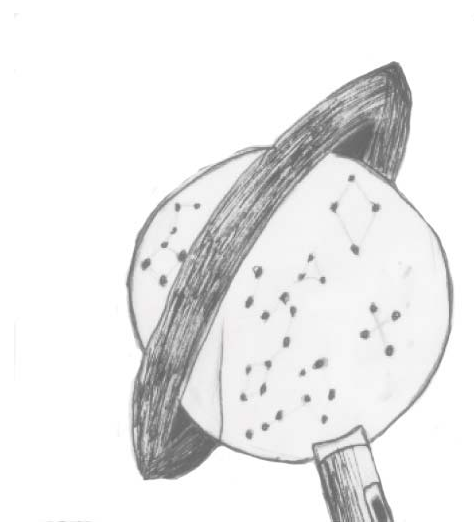
The top Senior Division individual project exhibitor of the 49th Colorado Science and Engineering Fair and winner of an all-expense paid trip to compete in the Intel International Science and Engineering Fair (Intel ISEF) was **Balaji Sridhar**, Cherry Creek High School in Greenwood Village, grade 11, for the project *Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge*. Second place for best individual project, and also a winner of an all-expense paid trip to compete at the Intel ISEF was **Alex Woods**, Fairview High School in Boulder, grade 10, for the project *Real-time Calculation Of The Rocket Roll Attitude Using The On-Board Video Camera*. Awarded third place for best individual project was **Craig Wright**, Woodlin School in Woodrow, grade 12, for the project *Surface Fabrication And Characterization For DNA-Based Biosensors*. Craig 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 **Graham Anderson & Shervin Rahimpour**, Palmer High School in Colorado Springs, grades 10 & 11 respectively, for the project *Is Free Radical Induced Cell Membrane Destruction Leading To Heart Disease?*

The winner of the Ralph F. Desch Memorial Technical Writing Award was Meredith MacGregor from Fairview High School in Boulder, grade 9, for the project *Centigrade 4.0: Turbulent Penetrative Convection In Chilled Water*.

The winner of the Senior Division Student Choice Award was **Adam Sidman**, Palmer High School in Colorado Springs, grade 10, for the project *Camera Stabilization*. The Junior Division Student Choice winner was **Timothy Schneider**, Miller Middle School in Durango, grade 8, for the project *Micro-power – Microchips In Miniature Robotics And Other Projects*.

The winner of the Poster Art Contest was **Christina O'Connell**, Hotchkiss High School in Hotchkiss.

The winner of the Lockheed Martin CSEF Teacher of the Year Award was **Nancy Gettman** of Woodlin School in Woodrow. Ms. Gettman received a \$3,000 grant to use towards scientific research in his classroom and school.



2004 COLORADO SCIENCE AND ENGINEERING FAIR

SCHOLARSHIP AWARDS

ADAMS STATE COLLEGE

Andrew Fritzler, Merino Jr/Sr High School in Merino, grade 11, for the project *Bioengineered Foods And The Physiological Impact On Insects*.

Erin Carr, Hotchkiss High School in Hotchkiss, grade 11, for the project *Formite Testing For Ringworm*.

Morgan Sayles, Hi-Plains High School in Seibert, grade 12, for the project *The Reduction Of Soil Compaction By The Addition Of A Surfactant*.

Gayle Michael, Lone Star School in Otisgrade 11, for the project *Fractional Dimension Of Group 2 Chloride Salts*.

Jade Brooks, Sierra Grande Jr/Sr High School in Blanca, grade 12, for the project *Hydrophobicity II: The Effects Of Forest Fires On Debris Flow*.

Craig Wright, Woodlin School in Woodrow grade 12, for the project *Surface Fabrication And Characterization For DNA-Based Biosensors*.

Randy Cotten, Hotchkiss High School in Hotchkiss, grade 11, for the project *The Effect Of A Clutch Concept On Fasteners*.

Meredith MacGregor, Fairview High School in Boulder, grade 9, for the project *Centigrade 4.0: Turbulent Penetrative Convection In Chilled Water*.

Kelly McNeil, Monte Vista High School in Monte Vista, grade 11, for the project *The Development Differences In Stress And Personality*.

Beth Hollowed, Meeker High School in Meeker, grade 9, for the project *Effects Of Malathion ULV: Insecticide Study*.

RYAN PATTERSON SCHOLARSHIP

The Ryan Patterson Scholarship is named after the Intel ISEF top winner of 2001, who is from Grand Junction, CO and currently attending the University of Colorado in Boulder. The Intel Foundation in Colorado Springs funds this scholarship and the winner can use it at the school of their choice. This years winner was Craig Wright, Woodlin School in Woodrow, grade 12, for the project *Surface Fabrication And Characterization For DNA-Based Biosensors*. (See Appendix 2 – CSEF Press Release for all winners)

COLORADO SCHOOL OF MINES

Tristan Brandenburg, Brush High School in Brush, grade 12, for the project *Circular Air Vehicles*.

Paul Scott, Woodlin School in Woodrow, grade 12, for the project *Comparing Statistical Analysis On Microarray Data*.

Rachel Doyle, Monte Vista High School in Monte Vista, grade 12, for the project *The Effect Of Precipitation And Stream Flow On The Metal Concentrations In Rivers Of Colorado*.

Jade Brooks, Sierra Grande Jr/Sr High School in Blanca, grade 12, for the project *Hydrophobicity II: The Effects Of Forest Fires On Debris Flow*.

Curtis Larimer, Palmer High School in Colorado Springs, grade 12, for the project *Engineering Magnetic Structures: Linewidth And Field Resonance Of Terbium-Doped Iron Films*.

UNIVERSITY OF COLORADO

Curtis Larimer, Palmer High School in Colorado Springs, grade 12, for the project *Engineering Magnetic Structures: Linewidth And Field Resonance Of Terbium-Doped Iron Films*.

Courtney Eichengreen, Palmer High School in Colorado Springs, grade 11, for the project *Chemotherapy & Phtoestrogen: The Impact Of Metabolic Modifiers On Tumor Cell Death*.

Meredith MacGregor, Fairview High School in Boulder, grade 9, for the project *Centigrade 4.0: Turbulent Penetrative Convection IN Chilled Water*.

Forrest Friesen, Palmer High School in Colorado Springs, grade 9, for the project *The Effects Of Pre-Stretching On The Performance Of Electroactive Polymer Actuators*.

2004 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 1,200 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 55 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 55th Intel ISEF held in Portland, OR May 9 - 14, 2004.

GRAND AWARDS

Lauren Smith from Colorado Springs, Co won a \$5,000 scholarship, an Intel Centrino mobile technology-based notebook computer, a \$1,000 grant for her school (Rampart High School) and a \$1,000 grant for her affiliated regional science fair (Pikes Peak RSF) in taking the Top of Category award in Botany. Lauren also won \$3,000 (1st Place) in Botany.

Laura Kaninger & James Cronk from Layfayette, CO won \$3,000 (1st Place) in the Team Projects Category.

Balaji Sridhar from Denver, CO won \$1,500 (2nd Place) in Environmental Sciences.

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

Lisa Saccomano from Englewood, CO won \$1,000 (3rd Place) in Medicine & Health.

Heather Messick from Monte Vista, CO won \$500 (4th Place) in Botany.

Carrie Kreimier from Rifle, CO won \$500 (4th Place) in Behavioral & Social Sciences.

Forrest Friesen from Colorado Springs, CO won \$500 (4th Place) in Engineering.

SPECIAL AWARDS

Meredith MacGregor won \$300 (3rd Place) from the American Physical Society.

Laruen Smith won \$700 (2nd Place) from the American Phytopathological Society.

Balaji Sridhar won a trip to visit the China Adolescents Science and Technology Innovation Contest in July or August from the China Association for Science and Technology.

Heather Messick won a \$5,000 per year for four years out-of-state tuition scholarship from Eastern Oregon University.

Alex Woods from Boulder, CO won \$250 (Honorable Mention) from Eastman Kodak Company.

Kristen Wells & Karen Jones from Colorado Springs, CO won a \$12,000 per year for four years tuition scholarship from the University of Portland.

GOVERNMENT AWARDS

Lauren Smith won a \$3,000 savings bond from the US Army.

Heather Messick won \$3,000 (1st Place) from the US Air Force.

Craig Wright from Akron, CO won \$1,500 (2nd Place) from the US Air Force.

Meredith MacGregor won \$200 (3rd Place) from the Bureau of Reclamation/US Department of the Interior.

ORGANIZATION

The success of each year's Colorado Science and Engineering Fair is directly dependent upon the support of public and private organizations, government agencies, school districts and universities, as well as 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 (volunteers from the sponsoring organizations working on overseeing the running 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 runs 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 great 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 & OBJECTIVES

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

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

We support regional science fairs by:

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

CSEF SPONSORS

PLATINUM SPONSORS

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

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)

Agilent Technologies
Anheuser-Busch, Inc.
Ball Corporation
Colorado Medical Society
Education Foundation
Kodak Colorado Division
Safe Sites of Colorado, LLC
Seagate Technology

SILVER SPONSORS

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

US Department of Commerce/NIST

REGULAR SPONSORS

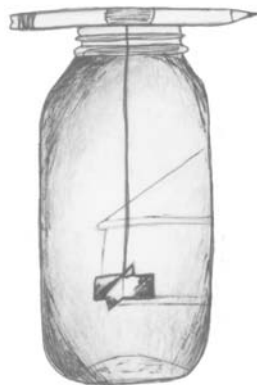
(Providing \$500 - \$750 in support of CSEF)

Colorado Engineering Council
National Renewable Energy Laboratory
Norgren
San Luis Valley Regional Science Fair, Inc.
University of Colorado – College of
Engineering & Applied Science
US Department of Commerce/NOAA
Washington Group International

CONTRIBUTORS

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

Edmon & Lucy Adams
Sam & Eileen Bartlett
Trudy Forsyth
Bonnie Hames
Gina Holland
King Soopers
Robert Lamereur
Pro Sports
Villa Pizza
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

US Department of Commerce/NOAA

Al Bedard – President

Regular Member since 1996

San Luis Valley Regional Science Fair, Inc.

David Holm - Vice President

Regular Member since 1997

National Renewable Energy Laboratory

Bonnie Hames – Secretary

Regular Member since 1999

Colorado Engineering Council

Sam Bartlett – Treasurer

Regular Member since 2001

Safe Sites of Colorado, LLC

Mike Bemski

Regular Member since 2002

Morgan Washington Bi-County RSF

Elemer Bernath

Associate Member since 2002

Lockheed Martin Space Systems Company

Paul Cheng

Regular Member since 1996

US Department of Commerce/NOAA

David Clark

Regular Member since 1995

Colorado Dental Association

Carol Denning

Regular Member since 2002

US Department of Commerce/NIST

Bill Dube

Regular Member since 2002

Agilent Technologies

Barry Eppler

Regular Member since 2003

National Renewable Energy Laboratory

Trudy Forsyth

Regular Member since 2003

Colorado Engineering Council

Gina Holland

Regular Member since 1991

Colorado Medical Society

Dean Holzkamp

Regular Member since 2003

US Department of Commerce/NIST

Stephanie Hooker

Regular Member since 2004

Colorado Medical Society

A. Bill Kieger

Regular Member since 2002

LSI Logic

Vishy Lakshmanan

Regular Member since 2001

Utility Engineering Corporation

Marie Mornis

Regular Member since 2004

Colorado Dental Association

Bob Morrow

Regular Member since 1995

Colorado State University

Jan Nerger

Regular Member since 2003

San Luis Valley Regional Science Fair, Inc.

Jody Oaks

Regular Member since 2003

Lockheed Martin Space Systems Company

John Parker

Regular Member since 2002

University of Colorado

Ryan Patterson

Regular Member since 2004

University of Colorado

Sherry Snyder

Regular Member since 1998

US Department of Commerce/NTIA

Amy Weich

Regular Member since 2000

Denver Chapter of the IEEE/LEOS Society

Gary Wilson

Regular Member since 2000

REGIONAL FAIR DIRECTORS

Arkansas Valley Regional Science Fair

Joel Grey & Charles Jacobs

Boulder Valley Regional Science Fair

Gary Marx & Anita Frant

Denver Metro Regional Science Fair

Jim Stevens & Kristina Wenzel

East Central Regional Science Fair

William Mallory & Marguerite Yowell

Longs Peak Regional Science Fair

Terry Scott & Courtney Willis

Morgan/Washington Regional Science Fair

Elemer Bernath & David Miner

Northeast Regional Science Fair

Janet Klein

Pikes Peak Regional Science Fair

Georgia Matteson

San Juan Basin Regional Science Fair

Andy MacGruer

San Luis Valley Regional Science Fair

Lucy Adams

Southeast Regional Science Fair

Terri Lira & Robin Staker

Southern Colorado Regional Science Fair

Carol Crossley

Western Regional Science Fair

Forbes Davidson & Rob Robison

MEMBERS AT LARGE

Nancy Gettman

David Pfuhl

Steve Iona

Russ Schnell

Larry Jakel

Deanna Schrock

Charles Johnson

Jim Sites

John McConnell

Doug Steward

Beverly Meier

Laura Ussery

Candus Muir

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

Bob Morrow

Awards Ceremony

Courtney Butler, Al Bedard, David Holm,
Sam Bartlett, Gina Holland, Eileene
Gooding, Bonnie Hames, Beverly Meier

Display & Safety

Dan Van Gorp, Elemer Bernath, Deanna
Schrock

Grand Awards Judging

Gina Holland, Bonnie Hames

Photography

Amy Weich, Eileene Gooding

Publicity

David Clark, Al Bedard, Gary Wilson

Registration

Courtney Butler, Lucy Adams

Room Set-Up

Jim Sites, Laura Ussery, Courtney Butler

Scholarships

David Holm (CSU), Lucy Adams (ASC),
Judy Cara (Intel)

Scientific Review

Elemer Bernath, Charles Johnson, Jody
Oaks, Doug Steward, Lucy Adams, Steve
Iona, Courtney Butler, Larry Jakel

Special Awards

Sam Bartlett, Paul Cheng, Beverly Meier

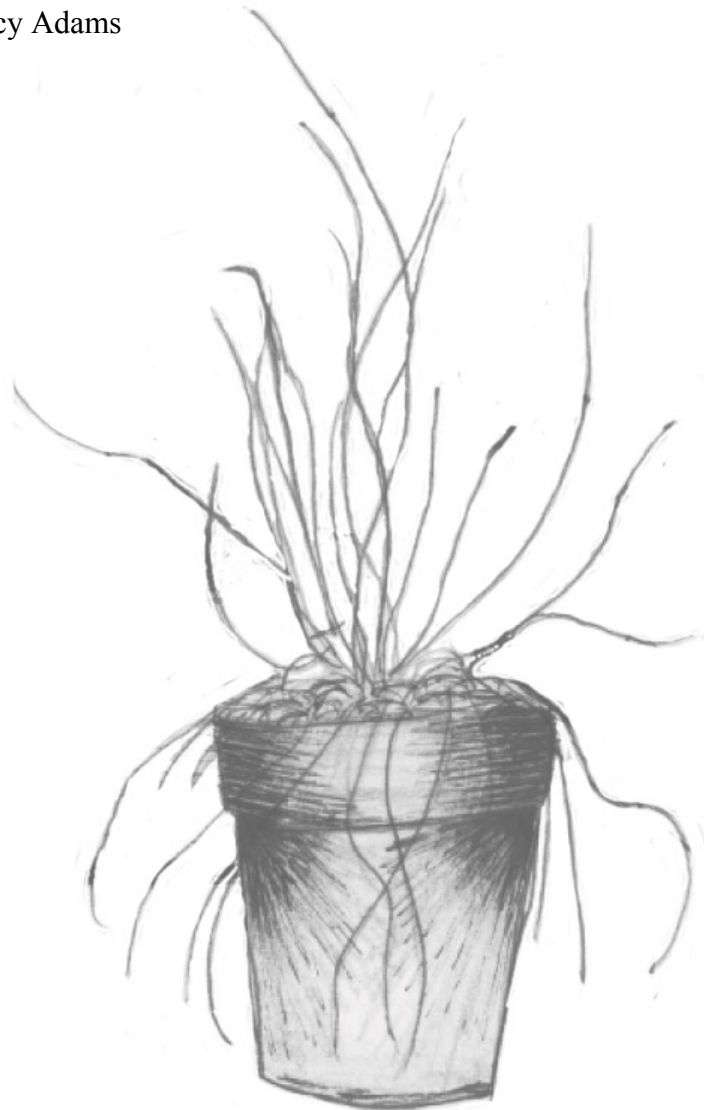
Student Activities

Lucy Adams, David Holm

Tours

Volunteer Coordination

Courtney Butler



Appendix 1
49th Annual Colorado Science and Engineering Fair

Lory Student Center

Fair Headquarters: 2nd Floor Lobby

Colorado State University

Thursday, April 8, 2004

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 – 4:00 PM	Regional Fair Director’s Meeting	Room 224/226
-------------------	----------------------------------	--------------

Judging Schedule

10:30 AM – 11:00 AM	Grand Awards Judge Captains’ Briefing	Cherokee Park 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 Judges 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 9, 2004

9:00 AM – 5:00 PM	CSEF Open to the Public	Main Ballroom
9:00 AM – 9:50 AM	Guest Speaker: Richard Foch, Naval Research Laboratory	CSU Theatre
10:00 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 10, 2004

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.	North Ballroom

Finalists must be present to win door prizes!

12:00 PM – 2:00 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 Portland, OR May 9 – 15, 2004.
 Next year’s 50th Colorado Science and Engineering Fair will be April 7 – 9, 2005.

2004 Colorado Science and Engineering Fair Grand Awards Press Release

Senior Best Individual Projects

First Place

Balaji Sridhar 11th grade
Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge
 Cherry Creek High School Greenwood Village

Second Place

Alex Woods 10th grade
Real-time Calculation Of The Rocket Roll Attitude Using The On-Board Video Camera
 Fairview High School Boulder

Third Place

Craig Wright 12th grade
Surface Fabrication And Characterization For DNA-Based Biosensors
 Woodlin School Woodrow

Junior Best Individual Projects

First Place

Alex Schnaderbeck 8th grade
Cottonwoods: Going, Going, Gone?
 Sargent Jr/Sr High School Monte Vista

Second Place

Kristine Thompson 7th grade
DAGM: Diabetic Advanced Glucose Monitor, "A Diabetic's Help Is On The Way!"
 West Jefferson Middle School Conifer

Third Place

Kirk Wilkinson 8th grade
How's Your Vitamin C Cooking?
 Monte Vista Middle School Monte Vista

Junior Best Team Projects

First Place Best

Lucas Mahaffey 8th grade
 Mikaila Way 8th grade
Methanol In Diet Soda?
 West Jefferson Middle School Conifer

Second Place

Brandy Haller 6th grade
 Kelsey Martin 6th grade
Benevolent Bacillus thuringiensis
 Woodlin School Woodrow

Third Place

Dylan Burkesmith 7th grade
 Kyle Brookens 7th grade
The Perfect House
 Pagosa Springs Junior High School Pagosa Springs

Senior Best Team Projects

First Place

Graham Anderson 10th grade
 Shervin Rahimpour 11th grade
Is Free Radical Induced Cell Membrane Destruction Leading To Heart Disease?
 Palmer High School Colorado Springs

Second Place

James Cronk 12th grade
 Laura Kaningher 11th grade
FISHing For Pseudomonas aeruginosa Via Sequencing And RFLP Analysis Of 16s ssRNA Genes
 Centaurus High School Lafayette

Third Place

Harold Klausner 10th grade
 Darrick Ohr 11th grade
Mighty Mites-The Effects Of Aceria malherbae On Convolvulus arvensis
 Woodlin School Woodrow

Junior Botany

First Place

Alex Schnaderbeck 8th grade
Cottonwoods: Going, Going, Gone?
 Sargent Jr/Sr High School Monte Vista

Second Place

Kevin Jones 7th grade
Is Epsom The Answer To Acid Soils? The Effect On Phototropism And Chlorosis
 Merino Jr/Sr High School Merino

Third Place

Kaitlyn Lingus 8th grade
Polymer Proof: Comparing The Effects Of Acrylic Polyacryamide Polymers With Other Planting Substances
 Branson School Branson

Honorable Mention

Kevin Bailey 7th grade
Jack And The Bean Shock
 Holy Family Catholic School Grand Junction

Senior Botany

First Place

Lauren Smith 11th grade
Treatment Of Xanthomonas campestris pv. vesicatoria Induced Bacterial Blight With UV-altered Phages
 Rampart High School Colorado Springs

Second Place

Nicole Thomas 12th grade
Evaluating Novel Potato Germplasm For Potato Virus Y
 Sierra Grande Jr/Sr High School Blanca

Appendix 2

Third Place

Heather Messick 12th grade
Green Manure vs. Meloidogyne chitwoodi
 Sargent Jr/Sr High School Monte Vista

Team Award Nomination

Harold Klausner 10th grade
 Darrick Ohr 11th grade
Mighty Mites-The Effects Of Aceria malherbae On Convolvulus arvensis
 Woodlin School Woodrow

Honorable Mention

Colton Stephenson 11th grade
How Much Dough Is Your Bread Worth?
 Akron High School Akron

Honorable Mention

Morgan Sayles 12th grade
The Reduction Of Soil Compaction By The Addition Of A Surfactant
 Hi-Plains High School Seibert

Junior Chemistry

First Place

Kirk Wilkinson 8th grade
How's Your Vitamin C Cooking?
 Monte Vista Middle School Monte Vista

Second Place

Cody Caver 8th grade
Investigating The Corrosive Effects Of De-Icing Chemicals On Selected Metals
 Woodlin School Woodrow

Third Place

Hannah Mink 7th grade
The Lost Art Of Dyeing
 St. Columba Middle School Durango

Team Award Nomination

Avery Hollingsworth 7th grade
 Brock Burchard 6th grade
Natural Indicators Acid And Base
 Kim Junior High School Kim

Honorable Mention

Cody Butero 6th grade
Corrosion
 Bayfield Middle School Bayfield

Honorable Mention

Turin Hansen 7th grade
Smelly Business
 Limon Jr/Sr High School Limon

Honorable Mention

Alison Grady 8th grade
Vitamin C Suffers Heat Stroke
 Summit Middle School Boulder

Senior Chemistry

First Place

Craig Wright 12th grade
Surface Fabrication And Characterization For DNA-Based Biosensors
 Woodlin School Woodrow

Second Place

Kenji Yoshida 12th grade
Investigation Of Inlet Materials For The Measurement Of Atmospheric Ammonia
 Fairview High School Boulder

Third Place

Tyler Keck 10th grade
The Super Absorber: Comparing Sodium Polyacrylate To Clay Pellets In Absorbing Metals Out Of Water.
 Monte Vista High School Monte Vista

Honorable Mention

Nathan Thomsen 11th grade
Density And Radiation Shielding
 The Classical Academy Colorado Springs

Junior Earth & Space Sciences

First Place

Daniel Neligh 8th grade
Erosional Investigations
 Ricks Center For Gifted Children Denver

Second Place

Channa Rotenberg 8th grade
Shake Rattle And Roll
 Rocky Mountain Hebrew Academy Denver

Third Place

Rachel Jensen 7th grade
The Dark Force
 Pagosa Springs Junior High School Pagosa Springs

Honorable Mention

Elliot Gacke 8th grade
Tornado Elements
 Bill Reed Middle School Loveland

Senior Earth & Space Sciences

First Place

Jade Brooks 12th grade
Hydrophobicity II: The Effects Of Forest Fires On Debris Flow
 Sierra Grande Jr/Sr High School Blanca

Second Place

Tyler Benton 11th grade
Reconstructing Soil Moisture Of The Platte Climate Division Using Moisture-Sensitive Tree-Ring
 Stratton High School Stratton

Appendix 2

Third Place

Yiming Wang 12th grade
Precipitation Forecast Verification Using 2-Dimensional Wavelet Transform
 Boulder High School Boulder

Honorable Mention

Ashley Masoner 12th grade
Comet's Loss Of Mass
 Monarch High School Louisville

Honorable Mention

Hilary Lierow 10th grade
Decontamination Of Feedlot Sewage Lagoons
 Akron High School Akron

Junior Engineering

First Place

Kristine Thompson 7th grade
DAGM: Diabetic Advanced Glucose Monitor, "A Diabetic's Help Is On The Way!"
 West Jefferson Middle School Conifer

Second Place

Jeffrey Goodrich 8th grade
First Electric R/C VTOL Airplane: Will It Fly?
 Orchard Mesa Middle School Grand Junction

Third Place

Daniel Smith 8th grade
Looney Tunes (R)
 Rocky Mountain Hebrew Academy Denver

Team Award Nomination

Dylan Burkesmith 7th grade
 Kyle Brookens 7th grade
The Perfect House
 Pagosa Springs Junior High School Pagosa Springs

Honorable Mention

Alison Ferris 8th grade
Fast Food Fuel
 Summit Middle School Boulder

Honorable Mention

Julia Nell 7th grade
Lights, Sound, Stop!
 Pagosa Springs Junior High School Pagosa Springs

Honorable Mention

Timothy Schneider 8th grade
Micropower - Microchips In Miniature Robotics And Other Projects
 Miller Middle School Durango

Senior Engineering

First Place

Adam Sidman 10th grade
Camera Stabilization
 Palmer High School Colorado Springs

Second Place

Forrest Friesen 9th grade
The Effects Of Pre-Stretching On The Performance Of Electroactive Polymer Actuators
 Palmer High School Colorado Springs

Third Place

Tristan Brandenburg 12th grade
Circular Air Vehicles
 Brush High School Brush

Honorable Mention

Sarah Moll 10th grade
Can You Take The Shakin'?
 La Veta Jr/Sr High School La Veta

Junior Environmental Sciences

First Place

Molly May 8th grade
Saving Energy And Reducing Pollution: The Flow Characteristics Of Fluidized Beds
 St. Columba Middle School Durango

Second Place

Tessa Nelson 8th grade
Does Man Made Run-off Cause Stream Invertebrates To "Run Off"?
 Denver School of the Arts Denver

Third Place

Carmiella Salzberg 8th grade
Bubble Trouble
 Rocky Mountain Hebrew Academy Denver

Team Award Nomination

Brandy Haller 6th grade
 Kelsey Martin 6th grade
Benevolent Bacillus thuringiensis
 Woodlin School Woodrow

Honorable Mention

Renee Woolley 7th grade
Are Electromagnetic Fields Making You Feel Shrimpy?
 West Middle School Colorado Springs

Honorable Mention

A.J. Allumbaugh 8th grade
Conserve H2O II
 Ward Middle School Ordway

Senior Environmental Sciences

First Place

Balaji Sridhar 11th grade
Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge
 Cherry Creek High School Greenwood Village

Second Place

Krishn Khanna 10th grade
Bio-Diesel: The Fuel Of The Future
 Palmer High School Colorado Springs

Appendix 2

Third Place

John Heermann 9th grade
Oil Pollution Solution III: Bioremediation
 Haxtun High School Haxtun

Honorable Mention

Melanie Mackes 9th grade
Defensible Space...Does It Work?
 Blevins Junior High School Fort Collins

Honorable Mention

Beth Hollowed 9th grade
Effects Of Malathion ULV: Insecticide Study
 Meeker High School Meeker

Junior Health & Behavioral Sciences

First Place

Conor May 6th grade
The Affect Of Letter Randomization On Reading Comprehension
 St. Columba Middle School Durango

Second Place

Lance Albrandt 7th grade
Soaked To The Bone: Will Soaking Bones In Milk, Vitamin A, And Calcium Effect Their Strength And Density
 Merino Jr/Sr High School Merino

Third Place

Anne Gumina 7th grade
A Possible Treatment For Osteoporosis: The Union Of Estrogen With Calcium
 Merino Jr/Sr High School Merino

Team Award Nomination

Lucas Mahaffey 8th grade
 Mikaila Way 8th grade
Methanol In Diet Soda?
 West Jefferson Middle School Conifer

Honorable Mention

Nick Ludwig 8th grade
I See! Vitamin C!
 Turner Middle School Berthoud

Honorable Mention

Sarah Theobald 8th grade
Sing A Song Of Scholarship
 North Middle School Colorado Springs

Honorable Mention

Ashley Van Uffelen 6th grade
Effect Of Color On Memory Retention
 Loveland Protestant Reformed Christian School Loveland

Honorable Mention

Danny Cramer 8th grade
That's So Random!! But Is It?
 Rocky Mountain Hebrew Academy Denver

Honorable Mention

Jake Abell 7th grade
Subitizing
 Ouray Middle School Ouray

Senior Health & Behavioral Sciences

First Place

Courtney Eichengreen 11th grade
Chemotherapy & Phytoestrogen: The Impact Of Metabolic Modifiers On Tumor Cell Death
 Palmer High School Colorado Springs

Second Place

Weston Brownlee 11th grade
How Much Is Too Much: A Study In Acetaminophen's Affect On The Detoxification Of H2O2 By Catalase
 Frontier Academy Greeley

Third Place

Miri Kornfeld 9th grade
The Effect Of N-Acetyl Cysteine, Superoxide Dismutase, And Trolox On The Longevity And Activity Of Human Neutrophils
 Rocky Mountain Hebrew Academy Denver

Team Award Nomination

Graham Anderson 10th grade
 Shervin Rahimpour 11th grade
Is Free Radical Induced Cell Membrane Destruction Leading To Heart Disease?
 Palmer High School Colorado Springs

Honorable Mention

Cristina Kinz 12th grade
Obesity And Endothelial Dysfunction
 Monarch High School Louisville

Junior Mathematics & Computer Sciences

First Place

Christopher Smith 7th grade
A Tactile Navigation Strategy For Walking Robots
 Smith Home School Boulder

Second Place

Matt Zubiel 8th grade
Emergency Medical Expert System
 Creekside Middle School Monument

Third Place

Sam Elder 8th grade
What Are Dr. Seuss's Favorite Letters?
 Boltz Junior High School Fort Collins

Senior Mathematics & Computer Sciences

First Place

Alex Woods 10th grade
Real-time Calculation Of The Rocket Roll Attitude Using The On-Board Video Camera
 Fairview High School Boulder

Second Place

Paul Scott 12th grade
Comparing Statistical Analysis On Microarray Data
 Woodlin School Woodrow

Appendix 2

Third Place

James Laff 11th grade
Game Theory: The Mathematics Of International Conflict
 George Washington High School Denver

Honorable Mention

Ian Springer 9th grade
Robotic Security Serveillance-1st Line Of Defense In Protecting Your Home Or Business
 Lamar High School Lamar

Junior Microbiology

First Place

Kara Berg 7th grade
Bacterial Contamination Of Restroom Door Handles
 Most Precious Blood Catholic School Denver

Second Place

Mitchell Harryman 7th grade
Is The Drink You Wish Turning Into A Petri Dish?
 Merino Jr/Sr High School Merino

Third Place

Nick Fedorov 8th grade
Native American Remedies vs. The E. coli
 Summit Middle School Boulder

Senior Microbiology

First Place

Evan Macmillan 12th grade
A Vegan Anti-Bacterial Soap
 Cherry Creek High School Greenwood Village

Second Place

Amanda Parker 11th grade
Origin Of HIV Wildtype Reverants Following 3TC Withdrawal
 Cherry Creek High School Greenwood Village

Third Place

Lauren Wright 11th grade
Catching Some Rays
 Monte Vista High School Monte Vista

Team Award Nomination

James Cronk 12th grade
 Laura Kaningher 11th grade
FISHing For Pseudomonas aeruginosa Via Sequencing And RFLP Analysis Of 16s ssRNA Genes
 Centaurus High School Lafayette

Honorable Mention

Adam Moberly 9th grade
The Life And Death Of Waterbed Colonies
 Coronado High School Colorado Springs

Junior Physics

First Place

J. Raleigh Burt 6th grade
Does Tire Pressure Matter? Fact Or Friction
 Sargent Elementary School Monte Vista

Second Place

Justin Kever 8th grade
Electrolysis: Which Electrode Material Is Best?
 Boltz Junior High School Fort Collins

Third Place

Joshua Cockroft 8th grade
The Light Wave
 Peak to Peak Charter School Lafayette

Team Award Nomination

Andrew King 6th grade
 Christopher Delgado 6th grade
A Kelvin Water Dropper: Making Electrostatic Electricity
 Mountain View Core Knowledge School Canon City

Honorable Mention

William Berdanier 7th grade
Flights Of Fancy
 Southern Hills Middle School Boulder

Honorable Mention

Emma Young 6th grade
Optical Fibers
 Mountain Ridge Middle School Colorado Springs

Honorable Mention

Theresa Adams 8th grade
To Escape Or Not To Escape
 Summit Middle School Boulder

Honorable Mention

Luke Larson 7th grade
Can A Plasma Be Made With Household Items?
 Lucile Erwin Middle School Loveland

Senior Physics

First Place

Meredith MacGregor 9th grade
Centigrade 4.0: Turbulent Penetrative Convection In Chilled Water
 Fairview High School Boulder

Second Place

Curtis Larimer 12th grade
Engineering Magnetic Structures: Linewidth And Field Resonance Of Terbium-Doped Iron Thin Films
 Palmer High School Colorado Springs

Third Place

Yunjie Ma 12th grade
Characterization Of SQUID Susceptometer
 Cherry Creek High School Greenwood Village

Honorable Mention

Chris Messick 9th grade
A Study Of 2.4 GHz Signal Concentrations From Wireless Devices
 Sargent Jr/Sr High School Monte Vista

Appendix 2

Honorable Mention

Amber Henry 12th grade
The Effects Of Bullet Trajectory And Deflection On Laminated Glass
 Hi-Plains High School Seibert

Honorable Mention

Jessica Bartley 12th grade
Synthetic Spectroscopy Of An Electron-Ion System
 Boulder High School Boulder

Junior Zoology

First Place

Chelsea Oden 8th grade
Avian Response To Predatory And Nonpredatory Mammal Silhouettes
 Monte Vista Middle School Monte Vista

Second Place

Kerry Cavanaugh 8th grade
The Effectiveness Of Bti And Altosid XR In Eliminating Culex pipiens pipiens Larvae
 North Middle School Colorado Springs

Third Place

Taiya Andrews 6th grade
Color Genetics In Netherland Dwarfs
 Miller Middle School Durango

Honorable Mention

Chace Carver 7th grade
Creatine: Does It Make A Muscle Gain, Or Create A Brain Drain?
 Merino Jr/Sr High School Merino

Honorable Mention

Angie Tornowski 8th grade
Bug Juice
 Genoa-Hugo School Hugo

Senior Zoology

First Place

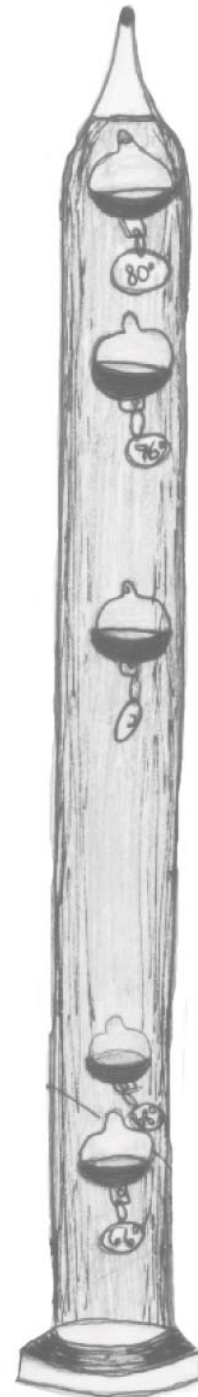
Ashley Pollock 9th grade
Biodegradable Hydrogels As A Simulation For Wildlife Vaccines
 Woodlin School Woodrow

Second Place

Andrew Fritzler 11th grade
Bioengineered Foods And The Physiological Impact On Insects
 Merino Jr/Sr High School Merino

Third Place

Bridget Schoenecker 11th grade
The Prevalence Of West Nile Antibodies In Equine
 Akron High School Akron



2004 Colorado Science and Engineering Fair Special Awards Press Release

Military

United States Air Force ROTC Colorado State University

Alex Woods 10th grade
padfolio, electronic rolodex organizer, certificate, medallion
Fairview High School Boulder
*Real-time Calculation Of The Rocket Roll Attitude Using The
On-Board Video Camera*

Jeffrey Goodrich 8th grade
padfolio, electronic rolodex organizer, certificate, medallion
Orchard Mesa Middle School Grand Junction
First Electric R/C VTOL Airplane: Will It Fly?

William Berdanier 7th grade
padfolio, electronic rolodex organizer, certificate, medallion
Southern Hills Middle School Boulder
Flights Of Fancy

Tristan Brandenburg 12th grade
padfolio, electronic rolodex organizer, certificate, medallion
Brush High School Brush
Circular Air Vehicles

United States Army

Amber Henry 12th grade
savings bond (to be mailed), certificate
Hi-Plains High School Seibert
*The Effects Of Bullet Trajectory And Deflection On Laminated
Glass*

Krishn Khanna 10th grade
savings bond (to be mailed), certificate
Palmer High School Colorado Springs
Bio-Diesel: The Fuel Of The Future

Danielle Nuding 11th grade
savings bond (to be mailed), certificate
Liberty High School Joes
Is Your Night Vision Polluted?

Danielle Nuding 11th grade
savings bond (to be mailed), certificate, silver medallion
Liberty High School Joes
Is Your Night Vision Polluted?

Ian Springer 9th grade
savings bond (to be mailed), certificate
Lamar High School Lamar
*Robotic Security Surveillance-1st Line Of Defense In Protecting
Your Home Or Business*

Adam Sidman 10th grade
savings bond (to be mailed), certificate
Palmer High School Colorado Springs
Camera Stabilization

United States Navy & Marine Corps

Timothy Schneider 8th grade
certificate
Miller Middle School Durango
*Micropower - Microchips In Miniature Robotics And Other
Projects*

Kristine Thompson 7th grade
certificate
West Jefferson Middle School Conifer
*DAGM: Diabetic Advanced Glucose Monitor, "A Diabetic's
Help Is On The Way!"*

Luke Larson 7th grade
certificate
Lucile Erwin Middle School Loveland
Can A Plasma Be Made With Household Items?

Curtis Larimer 12th grade
\$75 gift certificate (to be mailed), certificate
Palmer High School Colorado Springs
*Engineering Magnetic Structures: Linewidth And Field
Resonance Of Terbium-Doped Iron Thin Films*

Carrie Kreimier 9th grade
\$75 gift certificate (to be mailed), certificate
Rifle High School Rifle
More To Reading Than Meets The Eye

Ashley Pollock 9th grade
\$75 gift certificate (to be mailed), certificate
Woodlin School Woodrow
Biodegradable Hydrogels As A Simulation For Wildlife Vaccines

Organizational

Agilent Technologies

Erin Hubl 8th grade
handheld digital voltmeter (worth \$100)
West Middle School Colorado Springs
Solar Solutions

American Association of University Women

Emily Rotbart 8th grade
\$100
Rocky Mountain Hebrew Denver
*Battle Of The Sexes- The Effect Of Gender And Age On Learning
And Retention*

American Chemical Society, Colorado Section

Justin Garoutte 8th grade
\$100, certificate
Centauri Middle School La Jara
Soiled-A-Way

Appendix 2

Craig Wright 12th grade
 \$100, certificate
 Woodlin School Woodrow
Surface Fabrication And Characterization For DNA-Based Biosensors

American Institute of Chemical Engineers Rocky Mountain Section

William Eucker 12th grade
 \$50
 George Washington High School Denver
Determining The Growth Mechanism Of Single-Wall Carbon Nanotubes

Forrest Friesen 9th grade
 \$75
 Palmer High School Colorado Springs
The Effects Of Pre-Stretching On The Performance Of Electroactive Polymer Actuators

American Meteorological Society Denver/Boulder Chapter

Larissa Hardesty 8th grade
 \$50, certificate, subscription to Weatherwise magazine
 Gilpin County School Black Hawk
Laser Solutions

Balaji Sridhar 11th grade
 \$50, certificate, subscription to Weatherwise magazine
 Cherry Creek High School Greenwood
Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge

American Vacuum Society Rocky Mountain Chapter

Rachel Jensen 7th grade
 \$50, matching award to teacher/sponsor
 Pagosa Springs Junior High Pagosa Springs
The Dark Force

Jessica Bartley 12th grade
 \$100, matching award to teacher/sponsor
 Boulder High School Boulder
Synthetic Spectroscopy Of An Electron-Ion System

Craig Wright 12th grade
 \$50, matching award to teacher/sponsor
 Woodlin School Woodrow
Surface Fabrication And Characterization For DNA-Based Biosensors

Luke Larson 7th grade
 \$100, matching award to teacher/sponsor
 Lucile Erwin Middle School Loveland
Can A Plasma Be Made With Household Items?

American Water Works Association Rocky Mountain Section

Rachel Doyle 12th grade
 \$50 savings bond (to be mailed), plaque
 Monte Vista High School Monte Vista
The Effect of Precipitation And Stream Flow On The Metal Concentrations In Rivers Of Colorado

Tyler Keck 10th grade
 \$75 savings bond (to be mailed), plaque
 Monte Vista High School Monte Vista
The Super Absorber: Comparing Sodium Polyacrylate To Clay Pellets In Absorbing Metals Out Of Water.

Balaji Sridhar 11th grade
 \$100 savings bond (to be mailed), plaque
 Cherry Creek High School Greenwood
Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge

Analex Corporation

Alex Woods 10th grade
 \$100, certificate
 Fairview High School Boulder
Real-time Calculation Of The Rocket Roll Attitude Using The On-Board Video Camera

ASM International, Rocky Mountain Chapter

Greg Thues 7th grade
 \$50
 West Jefferson Middle School Conifer
Torsional Strength And Drop Resistance Of Solid Wood vs. Composite Wood

William Eucker 12th grade
 \$75
 George Washington High School Denver
Determining The Growth Mechanism Of Single-Wall Carbon Nanotubes

Association for Women Geoscientists Denver Chapter

Jade Brooks 12th grade
 \$50, rock sample
 Sierra Grande Jr/Sr High School Blanca
Hydrophobicity II: The Effects Of Forest Fires On Debris Flow

Channa Rotenberg 8th grade
 \$50, rock sample
 Rocky Mountain Hebrew Denver
Shake Rattle And Roll

Appendix 2

Colorado Association of Science Teachers

Tristan Brandenburg \$50, certificate Brush High School <i>Circular Air Vehicles</i>	12th grade Brush
Kerry Cavanaugh \$50, certificate North Middle School <i>The Effectiveness Of Bti And Altosid XR In Eliminating Culex pipiens pipiens Larvae</i>	8th grade Colorado Springs
Nick Fedorov \$50, certificate Summit Middle School <i>Native American Remedies vs. The E. coli</i>	8th grade Boulder
Chris Messick \$50, certificate Sargent Jr/Sr High School <i>A Study Of 2.4 GHz Signal Concentrations From Wireless Devices</i>	9th grade Monte Vista

Colorado Association of Science Teachers *Gerald Gromko Award*

Tyler Keck \$150, plaque Monte Vista High School <i>The Super Absorber: Comparing Sodium Polyacrylate To Clay Pellets In Absorbing Metals Out Of Water.</i>	10th grade Monte Vista
--	-------------------------------

Colorado Biology Teacher's Association

Nicole Thomas \$50, plaque Sierra Grande Jr/Sr High School <i>Evaluating Novel Potato Germplasm For Potato Virus Y</i>	12th grade Blanca
Chelsea Oden \$50, plaque Monte Vista Middle School <i>Avian Response To Predatory And Nonpredatory Mammal Silhouettes</i>	8th grade Monte Vista

Colorado Dental Association

Eric Keeling \$75, plaque, pen in a case La Veta Jr/Sr High School <i>Streptococcus Mutants & Toothpaste</i>	9th grade La Veta
Casey Wood Kyleigh Larson \$50, plaque, pen in a case Springfield Jr/Sr High School <i>What Cleaning Methods Sanitize Toothbrushes Best?</i>	8th grade 8th grade Springfield

Colorado Division of Wildlife

Tessa Nelson packet of Colorado wildlife products; free admission for a Wildlife Watch workshop Denver School of the Arts <i>Does Man Made Run-off Cause Stream Invertebrates To "Run Off"?</i>	8th grade Denver
Anne Thaemert packet of Colorado wildlife products; free admission for a Wildlife Watch workshop Merino Jr/Sr High School <i>Sarcodine Bioremediation In Streams: The Effects Of Arcella In Reducing Pollution From Heavy Metals</i>	11th grade Merino

Colorado Environmental Health Association

Kerry Cavanaugh \$50, certificate North Middle School <i>The Effectiveness Of Bti And Altosid XR In Eliminating Culex pipiens pipiens Larvae</i>	8th grade Colorado Springs
Balaji Sridhar \$100, certificate, invitation to exhibit at the CEHA Annual Educational Conference (\$350 value) Cherry Creek High School <i>Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge</i>	11th grade Greenwood
Aarthi Shankar \$50, certificate Mountain Ridge Middle School <i>Which Cutting Board Is Better</i>	6th grade Colorado Springs

Colorado Foundation for Agriculture *Agriculture in the Classroom Award*

Andrew Fritzier \$50, certificate Merino Jr/Sr High School <i>Bioengineered Foods And The Physiological Impact On Insects</i>	11th grade Merino
Maggie Bussell Crescent Miller \$50, certificate Mount Garfield Middle School <i>Can Adding Polymer To Plant Soil Decrease The Amount Of Water Needed?</i>	8th grade 8th grade Palisade
Rafe Paulson \$50, certificate Sargent Jr/Sr High School <i>More Moisture For Your Money</i>	7th grade Monte Vista
Heather Messick \$50, certificate Sargent Jr/Sr High School <i>Green Manure vs. Meloidogyne chitwoodi</i>	12th grade Monte Vista

Appendix 2

Colorado Geological Survey & Division of Minerals and Geology

Daniel Neligh \$150 Ricks Center For Gifted Children <i>Erosional Investigations</i>	8th grade Denver
Jade Brooks \$150 Sierra Grande Jr/Sr High School <i>Hydrophobicity II: The Effects Of Forest Fires On Debris Flow</i>	12th grade Blanca

Colorado Medical Society

Holly Mooren \$100, invitation to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay Walsh Junior High School <i>Does Gender Affect Short Term Memory?</i>	8th grade
Courtney Eichengreen \$100, invitation to exhibit at the Colorado Medical Society Annual Meeting and attendance at the Presidential Inaugural Dinner with a paid overnight stay Palmer High School <i>Chemotherapy & Phytoestrogen: The Impact Of Metabollic Modifiers On Tumor Cell Death</i>	11th grade

Colorado Mineral Society

Tyler Keck \$25, 2 mineral specimens, book Monte Vista High School <i>The Super Absorber: Comparing Sodium Polyacrylate To Clay Pellets In Absorbing Metals Out Of Water.</i>	10th grade Monte Vista
Channa Rotenberg \$25, 2 mineral specimens, book Rocky Mountain Hebrew <i>Shake Rattle And Roll</i>	8th grade Denver
Daniel Neligh \$40, 2 mineral specimens, book Ricks Center For Gifted Children <i>Erosional Investigations</i>	8th grade Denver
Rachel Doyle \$40, 2 mineral specimens, book Monte Vista High School <i>The Effect of Precipitation And Stream Flow On The Metal Concentrations In Rivers Of Colorado</i>	12th grade Monte Vista

Colorado Mycological Society

Erin Carr \$50 Hotchkiss High School <i>Formite Testing For Ringworm</i>	11th grade Hotchkiss
---	-----------------------------

Colorado Science and Engineering Fair *Technical Writing Award*

Meredith MacGregor \$100 Fairview High School <i>Centigrade 4.0: Turbulent Penetrative Convection In Chilled Water</i>	9th grade Boulder
---	--------------------------

Student Choice Award

Timothy Schneider \$50, certificate, trophy Miller Middle School <i>Micropower – Microchips In Robotics And Other Projects</i>	8th grade Durango
Adam Sidman \$50, certificate, trophy Palmer High School <i>Camera Stabilization</i>	10th grade Colorado Springs

Poster Art Contest

Christina O’Connell \$100, certificate Hotchkiss High School	Hotchkiss
--	-----------

Colorado Scientific Society

Tyler Benton \$75 Stratton High School <i>Reconstructing Soil Moisture Of The Platte Climate Division Using Moisture-Sensitive Tree-Ring Chronologies</i>	11th grade Stratton
Jade Brooks \$100 Sierra Grande Jr/Sr High School <i>Hydrophobicity II: The Effects Of Forest Fires On Debris Flow</i>	12th grade Blanca
Daniel Neligh \$75 Ricks Center For Gifted Children <i>Erosional Investigations</i>	8th grade Denver
Elizabeth Garcia \$50 Sargent Jr/Sr High School <i>Rock Talk</i>	7th grade Monte Vista

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

Taiya Andrews \$50, medallion, certificate Miller Middle School <i>Color Genetics In Netherland Dwarfs</i>	6th grade Durango
Hilary Lierow \$50, medallion, certificate Akron High School <i>Decontamination Of Feedlot Sewage Lagoons</i>	10th grade Akron

Appendix 2

Department of Biochemistry and Molecular Biology, Colorado State University

James Cronk 12th grade
Laura Kaninger 11th grade
\$100 (to be mailed), certificate
Centaurus High School Lafayette
FISHing For Pseudomonas aeruginosa Via Sequencing And RFLP Analysis Of 16s ssRNA Genes

Department of Chemistry Colorado State University

Cody Caver 8th grade
\$100, certificate
Woodlin School Woodrow
Investigating The Corrosive Effects Of De-Icing Chemicals On Selected Metals
William Eucker 12th grade
\$100, certificate
George Washington High School Denver
Determining The Growth Mechanism Of Single-Wall Carbon Nanotubes

Department of Horticulture and Landscape Architecture, Colorado State University

Nicole Thomas 12th grade
\$100
Sierra Grande Jr/Sr High School Blanca
Evaluating Novel Potato Germplasm For Potato Virus Y
Alex Schnaderbeck 8th grade
\$100
Sargent Jr/Sr High School Monte Vista
Cottonwoods: Going, Going, Gone?
Heather Messick 12th grade
\$100
Sargent Jr/Sr High School Monte Vista
Green Manure vs. Meloidogyne chitwoodi

Eastman Kodak Company

Alex Schnaderbeck 8th grade
APS camera
Sargent Jr/Sr High School Monte Vista
Cottonwoods: Going, Going, Gone?

Fort Collins Soil Conservation District

Maggie Bussell 8th grade
Crescent Miller 8th grade
\$50, plaque
Mount Garfield Middle School Palisade
Can Adding Polymer To Plant Soil Decrease The Amount Of Water Needed?
Jade Brooks 12th grade
\$50, plaque
Sierra Grande Jr/Sr High School Blanca
Hydrophobicity II: The Effects Of Forest Fires On Debris Flow

Intel Corporation

Kristine Thompson 7th grade
laptop computer (to be mailed)
West Jefferson Middle School Conifer
DAGM: Diabetic Advanced Glucose Monitor, "A Diabetic's Help Is On The Way!"
Alex Woods 10th grade
laptop computer (to be mailed)
Fairview High School Boulder
Real-time Calculation Of The Rocket Roll Attitude Using The On-Board Video Camera

Lockheed Martin

Teacher of the Year Award

Nancy Gettman
certificate, \$3,000 to use towards science fair research in the classroom, nomination for the 2005 Intel Teacher of the Year Award
Woodlin School Woodrow

Lockheed Martin Space Systems Company

Timothy Schneider 8th grade
\$100 savings bond (to be mailed); model rocket
Miller Middle School Durango
Micropower - Microchips In Miniature Robotics And Other Projects

National Geophysical Data Center

Kelsey McLean 6th grade
\$100 savings bond (to be mailed), certificate, plaque
Miller Middle School Durango
Snow Business

National Renewable Energy Laboratory

Krishn Khanna 10th grade
\$100
Palmer High School Colorado Springs
Bio-Diesel: The Fuel Of The Future

Rocky Mountain Association of Geologists

Rachel Doyle 12th grade
cash award (to be mailed)
Monte Vista High School Monte Vista
The Effect of Precipitation And Stream Flow On The Metal Concentrations In Rivers Of Colorado
Daniel Neligh 8th grade
cash award (to be mailed)
Ricks Center For Gifted Children Denver
Erosional Investigations
Elizabeth Garcia 7th grade
cash award (to be mailed)
Sargent Jr/Sr High School Monte Vista
Rock Talk

Appendix 2

Cole Kembel 7th grade
 cash award (to be mailed)
 Brush Middle School Brush
Using The GPS To Calculate The Circumference Of The Earth

Rocky Mountain Inventors Association *Outstanding Innovations Award*

Alex Woods 10th grade
 certificate
 Fairview High School Boulder
Real-time Calculation Of The Rocket Roll Attitude Using The On-Board Video Camera

Yiming Wang 12th grade
 \$50
 Boulder High School Boulder
Precipitation Forecast Verification Using 2-Dimensional Wavelet Transform

Kevin Bailey 7th grade
 \$50
 Holy Family Catholic School Grand Junction
Jack And The Bean Shock

Conor May 6th grade
 certificate
 St. Columba Middle School Durango
The Affect Of Letter Randomization On Reading Comprehension

Rocky Mountain Water Environment Association

Tessa Nelson 8th grade
 \$250 savings bond (to be mailed)
 Denver School of the Arts Denver
Does Man Made Run-off Cause Stream Invertebrates To "Run Off"?

John Heermann 9th grade
 \$100 savings bond (to be mailed)
 Haxtun High School Haxtun
Oil Pollution Solution III: Bioremediation

Balaji Sridhar 11th grade
 \$250 savings bond (to be mailed)
 Cherry Creek High School Greenwood
Optimization Of A Novel Process Of Removal Of Arsenic Residues From Drinking Water Treatment Sludge

William Benich 7th grade
 \$100 savings bond (to be mailed)
 Brentwood Middle School Greeley
How Well Is Weld's Water?

Society of Manufacturing Engineers **Chapter 354 - Front Range Electro-Mechanical**

Adam Sidman 10th grade
 savings bond (to be mailed), certificate, recognition by chapter
 Palmer High School Colorado Springs
Camera Stabilization

Timothy Schneider 8th grade
 savings bond (to be mailed), certificate, recognition by chapter
 Miller Middle School Durango
Micropower - Microchips In Miniature Robotics And Other Projects

Society of Women Engineers **Rocky Mountain Section**

Julia Nell 7th grade
 \$50, certificate
 Pagosa Springs Junior High Pagosa Springs
Lights, Sound, Stop!

Kristine Thompson 7th grade
 \$75, certificate
 West Jefferson Middle School Conifer
DAGM: Diabetic Advanced Glucose Monitor, "A Diabetic's Help Is On The Way!"

Megan Emmons 9th grade
 \$50, certificate
 Del Norte High School Del Norte
Force Of Air On A Flat Surface

Sarah Moll 10th grade
 \$75, certificate
 La Veta Jr/Sr High School La Veta
Can You Take The Shakin'?

Soil and Water Conservation Society

Morgan Sayles 12th grade
 \$50, certificate, ribbon
 Hi-Plains High School Seibert
The Reduction Of Soil Compaction By The Addition Of A Surfactant

Lacy Ritchey 8th grade
 \$25, certificate, ribbon
 Frontier Academy Greeley
Dig'n The "N"

Brittelle Bowers 11th grade
 Heather McGuire 11th grade
 \$25, certificate, ribbon
 Woodlin School Woodrow
Determination Of Persistent Tetracycline Residues In Liquid Manure By HPLC/ MS-MS

Rafe Paulson 7th grade
 \$50, certificate, ribbon
 Sargent Jr/Sr High School Monte Vista
More Moisture For Your Money

Tektronix

Adam Sidman 10th grade
 Tectronix TDS2024 Oscilloscope (worth \$2,800)
 Palmer High School Colorado Springs
Camera Stabilization

Appendix 2

United States Department of Commerce

Jade Brooks plaque, alternate for summer employment if 1st place cannot take it	12th grade
Sierra Grande Jr/Sr High School <i>Hydrophobicity II: The Effects Of Forest Fires On Debris Flow</i>	Blanca
Jessica Bartley plaque, opportunity for summer employment with Department of Commerce with possibility for future continuing employment	12th grade
Boulder High School <i>Synthetic Spectroscopy Of An Electron-Ion System</i>	Boulder

University of Colorado Health Sciences Center Medical Scientist Training Program

Nissa Schmidt \$50	11th grade
Merino Jr/Sr High School <i>Hair Dye: Hazardous To Your Health? The Effects Of Phenylenediamine On Morphogenesis In C. elegans.</i>	Merino
Courtney Eichengreen \$50	11th grade
Palmer High School <i>Chemotherapy & Phytoestrogen: The Impact Of Metabollic Modifiers On Tumor Cell Death</i>	Colorado Springs

US Geological Survey

Tyler Keck savings bond (to be mailed), book	10th grade
Monte Vista High School <i>The Super Absorber: Comparing Sodium Polyacrylate To Clay Pellets In Absorbing Metals Out Of Water.</i>	Monte Vista
Elizabeth Garcia savings bond (to be mailed), book	7th grade
Sargent Jr/Sr High School <i>Rock Talk</i>	Monte Vista

Yale Science & Engineering Association

James Laff pewter medallion (to be mailed), certificate	11th grade
George Washington High School <i>Game Theory: The Mathematics Of International Conflict</i>	Denver

Zonta Club of Boulder Amelia Earhart Award

Rebecca Barach \$100 cash award	8th grade
Denver Academy of Torah <i>Houston, We Have A Solution</i>	Denver

Scholarships

Adams State College

Randy Cotten one year resident tuition and fees	11th grade
Hotchkiss High School <i>The Effects Of A Clutch Concept On Fasteners</i>	Hotchkiss
Morgan Sayles one year resident tuition and fees	12th grade
Hi-Plains High School <i>The Reduction Of Soil Compaction By The Addition Of A Surfactant</i>	Seibert
Meredith MacGregor one year resident tuition and fees	9th grade
Fairview High School <i>Centigrade 4.0: Turbulent Penetrative Convection In Chilled Water</i>	Boulder
Kelly McNeil one year resident tuition and fees	11th grade
Monte Vista High School <i>The Developmental Differences In Stress And Personality</i>	Monte Vista
Erin Carr one year resident tuition and fees	11th grade
Hotchkiss High School <i>Fomite Testing For Ringworm</i>	Hotchkiss
Craig Wright one year resident tuition and fees	12th grade
Woodlin School <i>Surface Fabrication And Characterization For DNA-Based Biosensors</i>	Woodrow
Andrew Fritzler one year resident tuition and fees	11th grade
Merino Jr/Sr High School <i>Bioengineered Foods And The Physiological Impact On Insects</i>	Merino
Gayle Michael one year resident tuition and fees	11th grade
Lone Star School <i>Fractional Dimension Of Group 2 Chloride Salts</i>	Otis
Beth Hollowed one year resident tuition and fees	9th grade
Meeker High School <i>Effects Of Malathion ULV: Insecticide Study</i>	Meeker
Jade Brooks one year resident tuition and fees	12th grade
Sierra Grande Jr/Sr High School <i>Hydrophobicity II: The Effects Of Forest Fires On Debris Flow</i>	Blanca

Appendix 2

Colorado School of Mines

Tristan Brandenburg full, four-year resident tuition scholarship Brush High School <i>Circular Air Vehicles</i>	12th grade Brush
Paul Scott full, four-year resident tuition scholarship Woodlin School <i>Comparing Statistical Analysis On Microarray Data</i>	12th grade Woodrow
Jade Brooks full, four-year resident tuition scholarship Sierra Grande Jr/Sr High School <i>Hydrophobicity II: The Effects Of Forest Fires On Debris Flow</i>	12th grade Blanca
Curtis Larimer full, four-year resident tuition scholarship Palmer High School <i>Engineering Magnetic Structures: Linewidth And Field Resonance Of Terbium-Doped Iron Thin Films</i>	12th grade Colorado Springs
Rachel Doyle full, four-year resident tuition scholarship Monte Vista High School <i>The Effect of Precipitation And Stream Flow On The Metal Concentrations In Rivers Of Colorado</i>	12th grade Monte Vista

Intel Foundation

Ryan Patterson Scholarship

Craig Wright \$2,000 scholarship to be used at a college of student's choice Woodlin School <i>Surface Fabrication And Characterization For DNA-Based Biosensors</i>	12th grade Woodrow
---	-----------------------

University of Colorado Boulder

Forrest Friesen \$1000 scholarship for one year Palmer High School <i>The Effects Of Pre-Stretching On The Performance Of Electroactive Polymer Actuators</i>	9th grade Colorado Springs
Meredith MacGregor \$1000 scholarship for one year Fairview High School <i>Centigrade 4.0: Turbulent Penetrative Convection In Chilled Water</i>	9th grade Boulder
Courtney Eichengreen one full-year tuition Palmer High School <i>Chemotherapy & Phytoestrogen: The Impact Of Metabolic Modifiers On Tumor Cell Death</i>	11th grade Colorado Springs
Curtis Larimer \$2000 scholarship for one year Palmer High School <i>Engineering Magnetic Structures: Linewidth And Field Resonance Of Terbium-Doped Iron Thin Films</i>	12th grade Colorado Springs

Science Service

Discovery Communications, Inc.

Discovery Young Scientist Challenge

Kirk Wilkinson certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Monte Vista Middle School <i>How's Your Vitamin C Cooking?</i>	8th grade Monte Vista
Matt Zubiel certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Creskide Middle School <i>Emergency Medical Expert System</i>	8th grade Monument
Cody Caver certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Woodlin School <i>Investigating The Corrosive Effects Of De-Icing Chemicals On Selected Metals</i>	8th grade Woodrow
Jeffrey Goodrich certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Orchard Mesa Middle School <i>First Electric R/C VTOL Airplane: Will It Fly?</i>	8th grade Grand Junction
Kerry Cavanaugh certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition North Middle School <i>The Effectiveness Of Bti And Altosid XR In Eliminating Culex pipiens pipiens Larvae</i>	8th grade Colorado Springs
Alex Schnaderbeck certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Sargent Jr/Sr High School <i>Cottonwoods: Going, Going, Gone?</i>	8th grade Monte Vista
Mitchell Harryman certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Merino Jr/Sr High School <i>Is The Drink You Wish Turning Into A Petri Dish?</i>	7th grade Merino
Lance Albrandt certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition Merino Jr/Sr High School <i>Soaked To The Bone: Will Soaking Bones In Milk, Vitamin A, And Calcium Effect Their Strength And Density</i>	7th grade Merino
Conor May certificate, DYSC nomination, t-shirt will be provided to those submitting their projects for competition St. Columba Middle School <i>The Affect Of Letter Randomization On Reading Comprehension</i>	6th grade Durango

Appendix 2

Daniel Neligh 8th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Ricks Center For Gifted Children Denver
Erosional Investigations

Channa Rotenberg 8th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Rocky Mountain Hebrew Denver
Shake Rattle And Roll

J. Raleigh Burt 6th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Sargent Elementary School Monte Vista
Does Tire Pressure Matter? Fact Or Friction

Molly May 8th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
St. Columba Middle School Durango
*Saving Energy And Reducing Pollution: The Flow
Characteristics Of Fluidized Beds*

Kara Berg 7th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Most Precious Blood Catholic Denver
Bacterial Contamination Of Restroom Door Handles

Chelsea Oden 8th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Monte Vista Middle School Monte Vista
*Avian Response To Predatory And Nonpredatory Mammal
Silhouettes*

Kristine Thompson 7th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
West Jefferson Middle School Conifer
*DAGM: Diabetic Advanced Glucose Monitor, "A Diabetic's
Help Is On The Way!"*

Christopher Smith 7th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Smith Homeschool Boulder
A Tactile Navigation Strategy For Walking Robots

Kevin Jones 7th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Merino Jr/Sr High School Merino
*Is Epsom The Answer To Acid Soils? The Effect On
Phototropism And Chlorosis*

Tessa Nelson 8th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Denver School of the Arts Denver
*Does Man Made Run-off Cause Stream Invertebrates To
"Run Off"?*

Justin Keever 8th grade
certificate, DYSC nomination, t-shirt will be provided to those
submitting their projects for competition
Boltz Junior High School Fort Collins
Electrolysis: Which Electrode Material Is Best?

Eastman Kodak Company

Joshua Gibbs 10th grade
two Kodak Digital 35mm One Time Use Cameras (for student
and teacher), certificate
Palmer High School Colorado Springs
*Electron Trees: The Effect Of Increasing The Number Of
Electrons On Tree Density*

Herbert Hoover Presidential Library Association

Herbert Hoover Young Engineer Award

Adam Sidman 10th grade
medallion, certificate
Palmer High School Colorado Springs
Camera Stabilization

Intel

Excellence in Computer Science Award

Alex Woods 10th grade
\$200 (to be mailed), certificate
Fairview High School Boulder
*Real-time Calculation Of The Rocket Roll Attitude Using The
On-Board Video Camera*

Excellence in Environmental Health & Safety Award

Balaji Sridhar 11th grade
\$200 (to be mailed), certificate
Cherry Creek High School Greenwood
*Optimization Of A Novel Process Of Removal Of Arsenic
Residues From Drinking Water Treatment Sludge*

Mu Alpha Theta

James Laff 11th grade
certificate
George Washington High School Denver
Game Theory: The Mathematics Of International Conflict

NACE Foundation

NACE Certificate of Merit

Cody Caver 8th grade
certificate
Woodlin School Woodrow
*Investigating The Corrosive Effects Of De-Icing Chemicals On
Selected Metals*

Appendix 2

National Society of Professional Engineers *Innovative Engineering Award*

Adam Sidman 10th grade
one-year subscription to Engineering Times, lapel pin, certificate
Palmer High School Colorado Springs
Camera Stabilization

Scientific American

Balaji Sridhar 11th grade
one-year subscription to Scientific American, certificate
Cherry Creek High School Greenwood
*Optimization Of A Novel Process Of Removal Of Arsenic
Residues From Drinking Water Treatment Sludge*

Graham Anderson 10th grade
Shervin Rahimpour 11th grade
one-year subscription to Scientific American, certificate
Palmer High School Colorado Springs
*Is Free Radical Induced Cell Membrane Destruction Leading To
Heart Disease?*

Alex Woods 10th grade
one-year subscription to Scientific American, certificate
Fairview High School Boulder
*Real-time Calculation Of The Rocket Roll Attitude Using The
On-Board Video Camera*

Craig Wright 12th grade
one-year subscription to Scientific American, certificate
Woodlin School Woodrow
*Surface Fabrication And Characterization For DNA-Based
Biosensors*

US Department of Health & Human Services *US Public Health Service Award*

Cristina Kinz 12th grade
certificate signed by the Surgeon General
Monarch High School Louisville
Obesity And Endothelial Dysfunction

Water Environment Federation *Stockholm Junior Water Prize*

Balaji Sridhar 11th grade
nomination for the State Stockholm Junior Water Prize competi-
tion, certificate
Cherry Creek High School Greenwood
*Optimization Of A Novel Process Of Removal Of Arsenic
Residues From Drinking Water Treatment Sludge*

2003/2004 Expense Report
September 1, 2003 – August 31, 2004

Category Descriptions	Budget	Actual	Difference
INCOME			
Sponsorships	\$27,450.00	\$24,400.00	(\$3,050.00)
Contributions	\$2,500.00	\$2,374.09	(\$125.91)
In-Kind	\$5,725.00	\$7,598.53	\$1,873.53
Registrations	\$11,655.00	\$11,375.00	(\$280.00)
General Income			
<i>Interest</i>	\$400.00	\$210.08	(\$189.92)
<i>Sales</i>	\$750.00	\$718.00	(\$32.00)
<i>RSF Outreach Funds</i>	\$0.00	\$0.00	\$0.00
<i>Scholarships/Special Awards</i>	\$2,000.00	\$6,100.00	\$4,100.00
<i>Silent Auction</i>	\$200.00	\$35.00	(\$165.00)
<i>Teacher of the Year Award</i>	<u>\$1,000.00</u>	<u>\$3,000.00</u>	<u>\$2,000.00</u>
TOTAL General Income	\$4,350.00	\$10,063.08	\$5,713.08
TOTAL INCOME	\$51,680.00	\$55,810.70	\$4,130.70
EXPENSES			
Awards Ceremony			
Cash Awards	\$7,350.00	\$9,290.00	(\$1,940.00)
Other Awards	\$2,650.00	\$6,075.00	(\$3,425.00)
Photos	\$300.00	\$229.44	\$70.56
Press Release	\$400.00	\$441.75	(\$41.75)
Program	\$200.00	\$172.70	\$27.30
Room Rental	<u>\$500.00</u>	<u>\$587.50</u>	<u>(\$87.50)</u>
TOTAL Awards Ceremony	\$11,400.00	\$16,796.39	(\$5,396.39)
CSSF, Inc. Board			
Communications	\$480.00	\$449.14	\$30.86
Equipment	\$0.00	\$0.00	\$0.00
Meetings	\$900.00	\$905.21	(\$5.21)
Operations	\$6850.00	\$6780.27	\$69.73
Services	\$350.00	\$96.33	\$253.67
Supplies	<u>\$250.00</u>	<u>\$278.45</u>	<u>(\$28.45)</u>
TOTAL CSSF, Inc. Board	\$8,830.00	\$8,509.40	\$320.60
Finalists			
Activities	\$2,050.00	\$2,058.13	(\$8.13)
Publications	\$1,250.00	\$1,242.44	\$7.56
Registration	\$4,350.00	\$7,743.30	(\$3,393.30)
Room Rental	\$675.00	\$695.00	(\$20.00)
Transportation	<u>\$750.00</u>	<u>\$800.00</u>	<u>(\$50.00)</u>
TOTAL Finalists	\$9,075.00	\$12,538.87	(\$3,463.87)

2003/2004 Expense Report
September 1, 2003 – August 31, 2004

Category Description	Budget	Actual	Difference
ISEF			
Affiliation	\$500.00	\$500.60	(\$0.60)
Travel	<u>\$7,910.00</u>	<u>\$4,778.01</u>	<u>\$3,131.99</u>
TOTAL ISEF	\$8,410.00	\$5,278.61	\$3,131.39
Judging			
Communications	\$1,250.00	\$893.07	\$356.93
Room Rental	\$220.00	\$135.00	\$85.00
Travel	\$0.00	\$231.20	(\$231.20)
Supplies	\$200.00	\$428.18	(\$228.18)
Thank Yous	<u>\$3,100.00</u>	<u>\$2,511.56</u>	<u>\$588.44</u>
TOTAL Judging	\$4,770.00	\$4,199.01	\$570.81
Outreach	\$1,000.00	\$472.19	\$527.81
RSF Outreach	\$0.00	\$0.00	\$0.00
CSEF Expenses			
Adult Sponsors	\$400.00	\$376.98	\$23.02
Advisory Council	\$50.00	\$35.77	\$14.23
Fund Raising	\$100.00	\$81.09	\$18.91
Personnel	\$4,400.00	\$5,353.42	(\$953.42)
Publicity	\$200.00	\$357.70	(\$157.70)
Regional Fair Directors	\$200.00	\$174.26	\$25.74
Supplies	\$200.00	\$167.48	\$32.52
Volunteers	<u>\$1,000.00</u>	<u>\$1,308.74</u>	<u>(\$308.74)</u>
TOTAL CSEF Expenses	\$6,950.00	\$6,286.35	\$663.65
SRC/Display & Safety			
Communications	\$100.00	\$0.00	\$100.00
Meetings	\$600.00	\$506.73	\$93.27
Supplies	<u>\$100.00</u>	<u>\$66.84</u>	<u>\$33.16</u>
TOTAL SRC/Display & Safety	\$800.00	\$573.57	\$226.43
TOTAL EXPENSES	\$50,835.00	\$56,223.48	(\$5,388.48)
OVERALL TOTAL	\$845.00	(\$412.78)	(\$1,257.78)