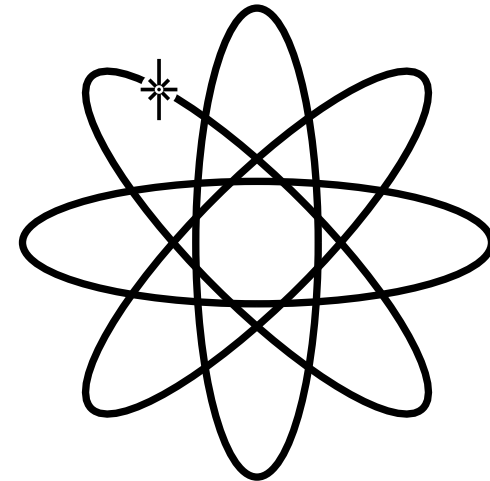


2008 PIKES PEAK REGIONAL SCIENCE FAIR

**University of Colorado
at Colorado Springs**

**Program and
Exhibit Guide**

March 1, 2008



3:30 pm Public exhibition of projects
4:45 pm Awards presentation ceremony

Pikes Peak Regional Science Fair Purpose

- To stimulate students to take a more active interest in the study of science and mathematics;
- To encourage able students, through experiment and competition, to consider scientific careers;
- To provide a means of reward and recognition;
- To arouse interest in the scientific ability of young people by affording capable students an opportunity to reveal the results of their extracurricular work.

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Background

The Pikes Peak Regional Science Fair, held each Spring, provides an opportunity for senior and junior high school students to present for evaluation and judging a science or math project of their own creation.

All students in El Paso, Elbert, Park, and Teller counties are eligible to compete in the Fair. Public, private, parochial, and home schools send exhibitors to the Fair.

To conceive, design, and complete a project requires the students to use their powers of observation, imagination, originality, and tenacity. The more the student puts into a project, the more the student benefits. Many students who compete here will not pursue a career in science, but the Fair gives them a greater understanding of the world.

The Fair has been fortunate in the support it receives from the business, industry, education, military, and professional communities. These people supply the funds to operate the Fair. The judges, all volunteers, also come from these organizations.

A group of students is selected to enter the Colorado State Fair. Additionally, one or more students might win expense-paid trips to the International Science Fair.

This year, Fair participation includes 279 students, 40 teachers, and 25 schools.

The Science Fair Board of Directors thanks you for joining us this year.

Student Entries for the 2008 Pikes Peak Regional Science Fair

Sixth Grade Biological Science

- 6A1 Tyler Oberg[6] (Timberview MS/Amy Murrell): "The search for bacteria"
- 6A2 Mitchell Dickinson[6] (Timberview MS/Amy Murrell): "Chilly plants"
- 6A3 Hannah Ashton[6] (Timberview MS/Amy Murrell): "Clean dirt?!"
- 6A4 Susan Tope[6] (Timberview MS/Amy Murrell): "Abracadabra! Poof Goes Bacteria"
- 6A5 Madison Dewey[6] (North MS/Caitlin Holt): "Lettuce taste the difference"
- 6A6 Katherine Barden[6] (North MS/Caitlin Holt): "Mummies"
- 6A7 Mitchel Morse[6] (North MS/Caitlin Holt): "How does your garden grow?"
- 6A8 Steven Ortega[6] (North MS/Greg Busby): "Algae: Energy resource for the future?"
- 6A9 Haley Rose Matteson[6] (North MS/Greg Busby): "Too hot or not – The effects of global warming on germination and seed growth"
- 6A10 Kiley Schlortt[6] (North MS/Greg Busby): "Beans & fertilizers"
- 6A11 Cleo Reinking[6] (North MS/Greg Busby): "The effect of runoff water on lettuce seeds"
- 6A12 Megan Benedict[6] (Russell MS/Greg Little): "Growing growing gone!"
- 6A13 Martina Valdez[6] (Russell MS/Brenda Henkel): "Will it grow"
- 6A14 Andy Giallombardo[6] (North MS/Greg Busby): "Enzymes"

Sixth Grade Health

- 6B1 Codi Inloes-Williams[6] (Timberview MS/Amy Murrell): "Making cents of H₂O"
- 6B2 Ellen Kyger[6] (Timberview MS/Amy Murrell): "Taste with your nose, smell with your mouth"
- 6B3 Aubrey Stegner[6] (North MS/Caitlin Holt): "I tought I saw a "Putty tat"!"
- 6B4 Sophia Schneider[6] (North MS/Caitlin Holt): "Taste a difference?"
- 6B5 Dante Carter[6] (North MS/Caitlin Holt): "Does music affect test scores?"
- 6B6 Abigail Negley[6] (North MS/Caitlin Holt): "Just listen"
- 6B7 Corissa Kiepke[6] (North MS/Greg Busby): "Effect of exercise on memory"
- 6B8 Mia Davis[6] (North MS/Greg Busby): "Musical rats"
- 6B9 Caeley McDowell[6] (Legacy Acad./Fred Crofford): "Stay away tooth decay"

Sixth Grade Physical Science

- 6C1 Mikaela Razo[6] (Timberview MS/Amy Murrell): "Bouncing balls"
- 6C2 Kayla Henry[6] (Timberview MS/Amy Murrell): "Paint samples: Friend or foe?"
- 6C3 Morgan Floyd[6] (Timberview MS/Amy Murrell): "Look out below"
- 6C4 Victoria Larson[6] (Timberview MS/Amy Murrell): "Water floating on water"
- 6C5 Austin Bovey[6] (Timberview MS/Amy Murrell): "Bounce per ounce"
- 6C6 Rae Hunt[6] (Timberview MS/Amy Murrell): "Hair spray"
- 6C7 Ava Armacost[6] (Timberview MS/Amy Murrell): "Wild coaster ride"

- 6C8 William Robey[6] (Timberview MS/Amy Murrell): "Would you like that egg floaty?"
- 6C9 Berek Vahey[6] (Timberview MS/Amy Murrell): "It's a wrap"
- 6C10 Colin Jacob[6] (Timberview MS/Amy Murrell): "Powerful towel?"
- 6C11 Kaid Beziou[6] (Timberview MS/Amy Murrell): "Baseball hitting distance"
- 6C12 Tommaso Mason[6] (Timberview MS/Amy Murrell): "The amazing force of gravity"
- 6C13 Madison Bautista[6] (North MS/Caitlin Holt): "Super bridges"
- 6C14 Mattie Firlit[6] (North MS/Caitlin Holt): "Soap"
- 6C15 Meg Theobald[6] (North MS/Caitlin Holt): "Sugar solutions"
- 6C16 Aidan Mike[6] (North MS/Caitlin Holt): "Electro-flow"
- 6C17 Jennifer Mobley[6] (North MS/Caitlin Holt): "Lets melt ice"
- 6C18 Isaac Morse[6] (North MS/Caitlin Holt): "Extinguishers"
- 6C19 Andrew Haines[6] (North MS/Caitlin Holt): "Shielding sound waves"
- 6C20 Taylor Moon[6] (North MS/Greg Busby): "Liquid absorption"
- 6C21 Jacob Gonzales[6] (Gold Camp Elem./Lisa Hughes): "Mixing liquids with water"
- 6C22 Jeff Kohl[6] (Gold Camp Elem./Lisa Hughes): "Shooting hoops"
- 6C23 Marika Schubert[6] (Russell MS/Greg Little): "Probability and chaos theory"
- 6C24 Mitch Gemignani[6] (Russell MS/Greg Little): "Under pressure"
- 6C25 Rob Newell[6] (West MS/Cesar Sanchez): "Homemade backpacking stoves"
- 6C26 Brenden Lopez[6] (Fox Meadow MS/Sharon Kochis): "Swimming Spaghetti"
- 6C27 Jordan Bushnell[6] (Irving MS/Chris Smith): "Glue filled mountain"
- 6C28 Jackson Miller[6] (Timberview MS/Amy Murrell): "Fore! The effect of ball type on distance traveled"
- 6C29 Reid Sabin[6] (Fox Meadow MS/Sharon Kochis): "Can you see what I hear?"

Sixth Grade Engineering

- 6D1 Cody Freeman[6] (Timberview MS/Amy Murrell): "Flights of fancy"
- 6D2 Cole Johnson[6] (Timberview MS/Amy Murrell): "Wow! Look at those rockets fly!"
- 6D3 Ryan Johnston[6] (Timberview MS/Amy Murrell): "Hovercraft that hovers"
- 6D4 Madison Kniesche[6] (Timberview MS/Amy Murrell): "Cooking a hotdog the conservative way"
- 6D5 Alex Ritz[6] (Russell MS/Greg Little): "Hovercraft science"
- 6D6 Jeffrey King[6] (Timberview MS/Amy Murrell): "Wing designs: Who's at the top?"
- 6D7 Caleb Dahlke[6] (Timberview MS/Amy Murrell): "Satellite signals"
- 6D8 Jacob Rollins[6] (Timberview MS/Amy Murrell): "Spin like the wind"
- 6D9 Owen Watry[6] (Timberview MS/Amy Murrell): "Harnessing wind to light up your life"

Seventh Grade Biological Science

- 7A1 Karsten Holmes[7] (Classical Academy – North/Candus Muir): "Feeding ants unnatural food"
- 7A2 Sarah Turner[7] (Classical Academy – North/Candus Muir): "Regeneration of planaria"

- 7A3 Sarah Arrasmith[7] (Classical Academy – North/Candus Muir): "Harbor porpoise travel patterns"
- 7A4 Jessica Klingensmith[7] (Classical Academy – North/Candus Muir): "To catch a silent killer"
- 7A5 Andrew Gordon[7] (Classical Academy – North/Phil Eaton): "Dirty bottles"
- 7A6 Sarah Oldach[7] (Classical Academy – North/Phil Eaton): "Colloidal silver – Nature's cure or fool's gold"
- 7A7 Kent Schaller[7] (Classical Academy – North/Candus Muir): "Lettuce"
- 7A8 Trevor Bills[7] (North MS/Erryn Tanner): "One a day for plants?"
- 7A9 Mia Lynch[7] (North MS/Erryn Tanner): "An old wives tale: Planting seeds with the phases of the moon"
- 7A10 Holly Stuart[7] (The Classical Academy/Candus Muir): "Café soil"
- 7A11 Dakota Jackson[7] (Russell MS/Suzanne Bowes): "The effect of temperature on bacteria growth"

Seventh Grade Health

- 7B1 Menal Khanna[7] (Classical Academy – North/Phil Eaton): "The loss of vitamin C in fresh juice from conventional and organic oranges"
- 7B2 Claire Felix[7] (Classical Academy – North/Phil Eaton): "Vertical jump"
- 7B3 Julia Thibault[7] (Classical Academy – North/Phil Eaton): "Where's the beef?"
- 7B4 Steven Murphy[7] (Classical Academy – North/Candus Muir): "Mind control"
- 7B5 Bruno Mediate[7] (Classical Academy – North/Phil Eaton): "Chewing gum for brain activity"
- 7B6 Meghan Connelly[7] (Classical Academy – North/Phil Eaton): "Silent but deadly"
- 7B7 Katie Hogan[7] (Classical Academy – North/Candus Muir): "The chemical's time"
- 7B8 Andrea Costas[7] (Timberview MS/Cindy Costanza): "Outsourcing or gambling with our health?"
- 7B9 Michelle Stinnett[7] (Pikes Peak Chr. S/Phil Euken): "Tap vs bottled"
- 7B10 Madison Bowden[7] (North MS/Erryn Tanner): "Shaping your thoughts"
- 7B11 Garrett Balsick[7] (Calhan Sch./Laurie Ochsie): "Bessie's best burger"
- 7B12 Molly Turner[7] (North MS/Erryn Tanner): "Remembering colors"
- 7B13 Olivia Subka[7] (North MS/Erryn Tanner): "Can anything stop you from crying while cutting an onion"
- 7B14 Perris Szeredy[7] (Russell MS/Lois Vavra): "Which product whitens teeth the best?"
- 7B15 Garrett Stanfill[7] (Legacy Acad./Kari Walters): "Should I brush it off: germs on food"
- 7B16 Sonia Seligova[7] (Classical Academy – North/Phil Eaton): "Smile"

Seventh Grade Physical Science

- 7C1 Emily Grissom[7] (Evangelical Christian/Karen Leidecker): "How far can it go?"
- 7C2 Andrea Childress[7] (Classical Academy – North/Phil Eaton): "Which kick is the most powerful?"
- 7C3 Kellen Hall[7] (Classical Academy – North/Candus Muir): "Aerobic flying disks and frisbees all around"

- 7C4 Madyson Palma[7] (Classical Academy – North/Candus Muir): “Fog and filtered light”
- 7C5 Brook Peckham[7] (Classical Academy – North/Phil Eaton): “It’s all about the bat”
- 7C6 Kameron Weaver[7] (Classical Academy – North/Candus Muir): “Skateboard wheels”
- 7C7 Tim Ross[7] (Classical Academy – North/Phil Eaton): “Bridge busters”
- 7C8 Joshua Enger[7] (Classical Academy – North/Phil Eaton): “Density vs. burn time”
- 7C9 Bianca Cruz[7] (Classical Academy – North/Candus Muir): “Concrete additives”
- 7C10 Michael Cooper[7] (Classical Academy – North/Candus Muir): “Thermocouple”
- 7C11 Troy Francis[7] (Classical Academy – North/Phil Eaton): “Mystery of the wind”
- 7C12 Alex Tieman[7] (Classical Academy – North/Candus Muir): “Oil spills”
- 7C13 Taylor Phelps[7] (Classical Academy – North/Candus Muir): “How cold is cold?”
- 7C14 Zach DeMeyer[7] (Classical Academy – North/Candus Muir): “Lead: The silent killer?”
- 7C15 Hannah Overton[7] (Classical Academy – North/Phil Eaton): “Electric vs. gas”
- 7C16 Andrew Skinner[7] (Classical Academy – North/Candus Muir): “Wood ignition”
- 7C17 Kristen Smith[7] (Classical Academy – North/Candus Muir): “Piece of cake”
- 7C18 Travis Thelen[7] (Classical Academy – North/Candus Muir): “The flood’s a’coming”
- 7C19 Justin Peterson[7] (Classical Academy – North/Candus Muir): “Stain removers”
- 7C20 Elayna Mahone[7] (Classical Academy – North/Candus Muir): “High fiber dye it”
- 7C21 Joanie Jacks[7] (Classical Academy – North/Candus Muir): “Popcorn”
- 7C22 Maddie MacGuire[7] (Classical Academy – North/Candus Muir): “Loe coating”
- 7C23 Kierra Mattingly[7] (Classical Academy – North/Candus Muir): “Lights! Camera! Action!”
- 7C24 Zachary Eberhart[7] (Irving MS/Chris Smith): “Catching heat: Trapping and magnifying solar power”
- 7C25 Sara Volz[7] (Cheyenne Mountain Ch. Acad./Mark Chabica): “Are biodiesel emissions less hazardous than commercial diesel emissions?”
- 7C26 Hannah Wardell[7] (Irving MS/Chris Smith): “Defeating passive infrared sensors”
- 7C27 Savannah Lyle[7] (North MS/Erryn Tanner): “Resistance of chemicals”
- 7C28 Teddy Swider[7] (North MS/Erryn Tanner): “Snap board”
- 7C29 Danelle Porter[7] (North MS/Erryn Tanner): “Colorado Springs pH”
- 7C30 Victoria Dye[7] (North MS/Erryn Tanner): “Express evaporation”
- 7C31 Maren Plutt[7] (North MS/Erryn Tanner): “Plop, plop, fizz fast!”
- 7C32 Laura Pitchford[7] (North MS/Erryn Tanner): “Soda and pulse”
- 7C33 Tanner Howard[7] (North MS/Erryn Tanner): “Humid baseballs”
- 7C34 Claire LaValley[7] (Classical Academy – North/Phil Eaton): “How low can you go?”
- 7C35 Miriam Douma[7] (Classical Academy – North/Candus Muir): “Does temperature affect pitch”
- 7C36 Nathan Ziegler[7] (Classical Academy – North/Candus Muir): “Fruits”
- 7C37 Madison Bender[7] (Classical Academy – North/Candus Muir): “Are you a hottie?”
- 7C38 Megan Heier[7] (Russell MS/Lois Vavra): “Will water pull nitrate and phosphate from soil?”

- 7C39 Galen Atkinson[7] (Fox Meadow MS/Sharon Kochis): “Conservation or detonation”

Seventh Grade Engineering

- 7D1 Jeremy Lieberson[7] (Classical Academy – North/Phil Eaton): “Does the design of a bridge affect its strength?”
- 7D2 Brianna Martinez[7] (Classical Academy – North/Phil Eaton): “Top to bottom”
- 7D3 Evan Willis[7] (Classical Academy – North/Candus Muir): “Probability of aliens”
- 7D4 Brittany Droogsmal[7] (Classical Academy – North/Candus Muir): “Hydroelectric energy generation”
- 7D5 Victoria Moore[7] (Timberview MS/Amy Murrell): “The investigation of hovercraft”
- 7D6 Matthew Struttman[7] (Evangelical Christian/Karen Leidecker): “The medieval trebuchet”

Eighth Grade Biological Science

- 8A1 Geoff Whittington[8] (Evangelical Christian/Karen Leidecker): “Mouth was vs. bacteria in the mouth”
- 8A2 Camille Moore[8] (North MS/Greg Busby): “Plants”
- 8A3 Chris Meyer[8] (North MS/Greg Busby): “SPF factors”
- 8A4 Liam Jasperse-Sjolander[8] (North MS/Greg Busby): “A light dillusion: The effects of light pollution on algae”
- 8A5 Jeanette Murnane[8] (Sabin MS/Christopher Cruz): “More CO₂ means what for plant growth”
- 8A6 Colin Burkhardt[8] (Fox Meadow MS/Sharon Kochis): “Yeasty beasty”

Eighth Grade Health

- 8B1 Marissa Willimann[8] (Pikes Peak Chr. S/Phil Euken): “Touch or no touch”
- 8B2 Molly Graber[8] (North MS/Greg Busby): “The effects of bovine colostrum on breast cancer”
- 8B3 Katie Cardillo[8] (Sabin MS/Rose Di Censo): “Chlorine toxicity”
- 8B4 Lindsey King[8] (Holmes MS/Marty Wolf): “Memorization of a visual field in 2-d versus 3-d”
- 8B5 Lauren Blake[8] (Sabin MS/Rose Di Censo): “Do you remember?”
- 8B6 Adam Warren[8] (The Classical Academy/Candus Muir): “Music to your ears”
- 8B7 Monica Padeway[8] (Sabin MS/Christopher Cruz): “Race for relief”
- 8B8 Allison Wellborn[8] (Sabin MS/Rose Di Censo): “Don’t forget to remember . . . music?”
- 8B9 Elise Cimino[8] (Russell MS/Suzanne Bowes): “Word vs. colors”
- 8B10 Joseph Archuleta[8] (Fox Meadow MS/Sharon Kochis): “Ambidexterity: Comparing and contrasting right-hand to left-hand dominance”
- 8B11 Scott Davidson[8] (Holmes MS/Kendra Schleiker): “How does the music you listen to affect how fast you exercise?”

Eighth Grade Physical Science

- 8C1 Lindsay Geving[8] (Evangelical Christian/Karen Leidecker): "Huddle up for heat!"
- 8C2 Sam Wetlesen[8] (Evangelical Christian/Karen Leidecker): "Which of beeswax, soy plant wax, and petroleum wax burns the longest amount of time?"
- 8C3 Mickella Duffy-Webb[8] (North MS/Greg Busby): "Disasters and you"
- 8C4 Kaylin Schloesser[8] (North MS/Greg Busby): "In a Barbie world"
- 8C5 Lorne II Muir[8] (Classical Academy – North/Candus Muir): "Hail! No!"
- 8C6 Rachel Ende[8] (Timberview MS/Cindy Costanza): "Water evaporation"
- 8C7 Jon Mobley[8] (North MS/Greg Busby): "Plan O for oxidation"
- 8C8 Layne Barrett[8] (The Classical Academy/Candus Muir): "Twist but don't shout"
- 8C9 Brianne Leatherman[8] (Sabin MS/Rose Di Censo): "Bubbly bubbles"
- 8C10 Abbi Helfer[8] (North MS/Greg Busby): "Conventional wisdom"
- 8C11 Theresa Dominguez[8] (Russell MS/Suzanne Bowes): "The effects of humidity on hair"
- 8C12 Logan Bianchi[8] (Russell MS/Suzanne Bowes): "The carnival block game: Luck or science?"
- 8C13 Ravi Gaddipati[8] (Discovery Canyon MS/Christa Lundberg): "Electrolysis"
- 8C14 Phani Gaddipati[8] (Discovery Canyon MS/Christa Lundberg): "Magnetohydrodynamics"
- 8C15 Rahul Shankar[8] (Mountain Ridge MS/Regina Miller): "Co-operating robots"

Junior High Group Projects

- JF1 Meghan Angley[8] & Alyssa Allen[8] (Classical Academy – North/Candus Muir): "Birds and wires"
- JF2 Claire Derr[7] & Allison Gudvangen[7] (North MS/Erryn Tanner): "Ethanol vs. methanol"
- JF3 Jennifer Brashears[6] & Allison Gregor[6] (Fox Meadow MS/Lindsey Ismirle): "The effects of air pollution"
- JF4 Jenny Bushnell[7] & Kelsey Rohlfing[7] (Irving MS/Chris Smith): "Do your rocks need sunscreen?"

Senior High Biological Science

- SA1 Sarah Theobald[12] (Palmer HS/Martha Alvarez): "Colloidal silver: Chemical Antibacterial, or nature's placebo?"
- SA2 Elizabeth Boucher[9] (Palmer HS/Carol Bach): "Red, yellow, blue, or pee-uw!"
- SA3 Rachel Carpenter[9] (Palmer HS/Carol Bach): "Plants rock"
- SA4 Evan Friesen[9] (Palmer HS/Carolyn Derr): "Temperature effects on spider silk strength"
- SA5 Ja'gr Thompkins[9] (Palmer HS/Carolyn Derr): "Infested: The secrets that lie in your pocket"
- SA6 Kayla Sandoval[9] (Palmer HS/Carolyn Derr): "Motor oil against *chlorella*"
- SA7 Dana Louie[9] (Palmer HS/Martha Alvarez): "Effects of UV-b on radish growth"
- SA8 Katie Raitz[9] (Palmer HS/Martha Alvarez): "A cell's life: Short and sweet"

- SA9 Tyler Long[9] (Palmer HS/Karen Crosson): "Moldy cheese"
- SA10 Joshua Mathews[9] (Palmer HS/Karen Crosson): "Milk gone bad?"
- SA11 Juliana Moore[9] (Liberty HS/Amy Murrell): "Bacteria meets its match"
- SA12 Maciek Bieniek[11] (Coronado HS/Darin Smith): "Effect of antibiotics on gram negative and gram positive bacteria"
- SA13 Augustus McGarraugh[9] (Palmer HS/Karen Crosson): "The dehydrated sugar maker"
- SA14 Gregory Gius[9] (Coronado HS/Lynne Williams): "The science of football"
- SA15 Russell Finsterwlad[10] (Coronado HS/Lynne Williams): "Mountain biking"
- SA16 Caleb Kruse[10] (Home School/Tami Kruse): "C the difference: Determining *zooxanthellal* density of bleaching coral and ascorbic acid response"
- SA17 Jason Friesen[9] (Palmer HS/Carol Bach): "The effects of UV rays on fruit flies"
- SA18 Christopher Krause[10] (The Classical Academy/Candus Muir): "Caution: Surface may be hot"
- SA19 Jamie Taylor[9] (Palmer HS/Carol Bach): "Magnetic green"
- SA20 Max Krakauer[12] (Palmer HS/Martha Alvarez): "Environmental impacts of 2,5-Dimethylfuran"

Senior High Health

- SB1 Sean Robinson[9] (Palmer HS/Carolyn Derr): "Ovens ovens everywhere"
- SB2 Collin Currier[9] (Palmer HS/Carolyn Derr): "Recycling: The age old question"
- SB3 Grace Comiskey[9] (Palmer HS/Carolyn Derr): "Hairapy"
- SB4 Jessica Puzick[9] (Palmer HS/Karen Crosson): "Hospital bacteria"
- SB5 Leela Khanna[10] (Palmer HS/Nancy Hampson): "The effects of transcendental meditation on brain waves"
- SB6 Garrett Prather[9] (Palmer HS/Karen Crosson): "Color and texture affecting food"
- SB7 Lisa Grossman[12] (Palmer HS/Martha Alvarez): "Optical isomerism, geometric isomerism, and chemical synergy problems in synthetic vit. E and beta-carotene"
- SB8 Ray Grossman[9] (Palmer HS/Nancy Hampson): "How much C is in your OJ?"
- SB9 Jillian August[10] (Legacy Acad./Rhonda Peterson): "Testing your memory"
- SB10 Kelli LaMantia[10] (Legacy Acad./Rhonda Peterson): "Weight gain in mice"
- SB11 Aarthi Shankar[10] (Rampart HS/Regina Miller): "Proteomic characterization of extracellular matrix to identify tumor-associated biomolecules"

Senior High Physical Science

- SC1 Alana Wilbee[9] (Palmer HS/Carolyn Derr): "A well-spun yarn"
- SC2 Zacc Helfer[9] (Palmer HS/Martha Alvarez): "Unlocking the secrets"
- SC3 Mary Christensen[9] (Palmer HS/Martha Alvarez): "Friction on ice"
- SC4 Andrew Theobald[9] (Palmer HS/Martha Alvarez): "Beneficial orange juices"
- SC5 Anthony Meluso[9] (Palmer HS/Carol Bach): "The most efficient way to make an ember"
- SC6 Sophie De Arment[9] (Palmer HS/Carol Bach): "Hydrofoils"
- SC7 Breck Jordan[10] (Coronado HS/Lynne Williams): "Acoustics of metals and woods"

- SC8 Adam Stanfill[9] (Legacy Acad./Linda Clark): "Got gas?"
 SC9 Ashley Lutton[9] (Palmer HS/Carolyn Derr): "Boiling over"
 SC10 Eunice Lee[9] (Palmer HS/Carol Bach): "Heat engine"
 SC11 Marlena Widman[10] (The Classical Academy/Candus Muir): "Junkyard multispectral imaging"
 SC12 Jonathan Garrido[10] (Palmer HS/Karen Crosson): "Keep the heat in!"
 SC13 Ryan Barr[9] (Palmer HS/Karen Crosson): "Which Wood Burns Fastest?"

Senior High Engineering

- SD1 Janine Pracht[9] (Palmer HS/Carolyn Derr): "Lowering red eye in digital photography"
 SD2 Laura Spindler[11] (Classical Academy – North/Candus Muir): "The strongest type of truss bridge"
 SD3 Lidia Kamionka[10] (Palmer HS/Nancy Hampson): "GPS robot test"
 SD4 Steven Walton[9] (Palmer HS/Carolyn Derr): "Effects of tension, length, and density on sound"
 SD5 Dong-Kou Kim[11] (Fountain Valley School of Colo./Ann Carson): "Piezo generator"
 SD6 Cameron Kruse[12] (Home School/Tami Kruse): "The dirt on baseball: Engineering a path towards standardizing the baseball mudding process"

Senior High Group Projects

- SF1 Laura Egan[9] & Madison Stenger[9] (Palmer HS/Carol Bach): "Soap du jour"
 SF2 Michelle Becknell[9] & Hannah Brunner[9] (Palmer HS/Carol Bach): "Sleep deprivation"
 SF3 Hali Dickson[9] & Korey Swain[9] (Palmer HS/Karen Crosson): "Athletes vs. non-athletes"
 SF4 Kathryn Hutton[9] & Lynn Kim[9] (Palmer HS/Carol Bach): "Hearing test"
 SF5 Leah Alvarado[9] & Adriana Wojakowska[9] (Palmer HS/Karen Crosson): "Candy or time out?"
 SF6 Sara Kowalski[9] & Emily Smith[9] (Palmer HS/Carol Bach): "What's poppin?"
 SF7 Zach Stemas[9] & Tanner Jones[9] (Palmer HS/Karen Crosson): "Bike handlebars"
 SF8 Alexandra April[9] & Jillian Brinkman[9] (Coronado HS/Kendra Schleiker): "Fat or fantasy: Can you taste the difference?"
 SF9 Travis Michaels[9] & Tarron Crowell[9] & Alan Medellin[9] (Coronado HS/Lynne Williams): "Sleep deprivation"
 SF10 Frank Ricotta[9] & Taylor Kay[9] & Katie Pina[9] (Coronado HS/Lynne Williams): "The physics of volleyball"
 SF11 Calli Johnson[9] & Kaisha Conover[9] (Coronado HS/Lynne Williams): "Visual versus auditory memory"
 SF12 Tonya Pavlenko[9] & Laura Gudvangen[9] (Palmer HS/Carol Bach): "A comparison of bacterial transmission of infections disease"
 SF13 Susannah Rogers[9] & Stuti Das[11] (St. Marys HS/Kathy Hanshew): "Chloroquine's effect on *glioblastoma*, *multiforme* and *lymphoma*"
 SF14 Meg Rudy[10] & Kylee Firlit[10] (Palmer HS/Nancy Hampson): "Running against the temperature"

- SF15 Ryan Zahler[10] & Chris Gill[10] (Coronado HS/Lynne Williams): "Drum cymbals"
 SF16 Phillip Jahelka[10] & Cody Kessel[10] (Palmer HS/Nancy Hampson): "The speed of light in Jell-o"
 SF17 Cathene Ruder[9] & Kaeli Vandersluis[9] & Libby Skivington[9] (Coronado HS/Lynne Williams): "The psychology of hook-ups and break-ups"
 SF18 Mark Smith[10] & Morgan DeWitt[9] (Coronado HS/Lynne Williams): "The ACL and the body"
 SF19 Becky Calahan[9] & Audrianna Ricotta[9] (Coronado HS/Lynne Williams): "How physics affects volleyball"
 SF20 Tim O'Connell[10] & Dan Sawyer[10] (Coronado HS/Lynne Williams): "The active memory"
 SF21 Megan Tilger[9] & Alaina Anders[9] (Palmer HS/Karen Crosson): "Alaina and Megan's magnificent bacteria"
 SF22 John Tiggemann[9] & Chris Urbaniak[9] (Palmer HS/Carol Bach): "Your mind"
 SF23 Jaime Perez[9] & Race Osuna[9] (Palmer HS/Karen Crosson): "Shooting hoops boys vs girls"
 SF24 Andrew Darress[9] & Nick Burghardt[9] & Jared Rieck[9] (Coronado HS/Lynne Williams): "The sound of music"
 SF25 Julia E Leonard[12] & Kerry Cavanaugh[12] (Palmer HS/Nancy Hampson): "Bridges to pollution"
 SF26 Tucker Walsh[10] & Nolan Walker[10] (Palmer HS/Nancy Hampson): "Operation: Clean water"

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It's how we're all connected

Pikes Peak Regional Science Fair

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Jerry White, Dr. Rob Kolstad

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Greg Busby, Dr. Kelly Gregg, Tammy Johnnie, Charlie Matteson, Georgia Matteson, Rich Painter, Chuck Theobald, David Wagner

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PPRSF thanks the University of Colorado at Colorado Springs for its warm hospitality.

A special PPRSF thank you to Colorado Springs Utilities for printing this booklet.

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Linda Campbell

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Dr. Rob Kolstad

Web, Typesetting, & Forms:

Dr. Rob Kolstad

Awards Ceremonies

Science Auditorium & Gymnasium

Opening and Introduction

Dr. Kelly Gregg, President

Awards (see next page)

Jerry White

Dr. Rob Kolstad

Junior High (6th 7th, 8th grades)

Biology

Health and Behavioral Science

Physical Sciences

Engineering

Group Projects

Senior High (9th, 10th, 11th, 12th grades)

Biology

Health and Behavioral Science

Physical Science

Engineering/Computer Science

Math/Computer Science

Group Projects

Grand Award Winners

Invitations to 53rd Annual Colorado State Science Fair

Georgia Matteson, Fair Director

Invitations to 58th Annual International Science Fair

Pikes Peak Regional Science Fair

Tentative Special Awards

AFCEA

American Association of University Women

American Meteorological Society

American Psychological Association

ASM International

Association for Women Geoscientists

Biological Science Curriculum Study

Challenger Learning Center

Colorado Associates in Medical Physics

Colorado College Psychology

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Ricoh

Society for In-Vitro Biology

Society of Women Engineers

Stockholm Junior Water Prize

Ted's Bicycles

U.S. Air Force

U.S. Army

U.S. Department of Energy

U.S. Metric Association

U.S. Navy and Marines

U.S. Public Health Service

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