



Discovery Channel Young Scientist Challenge

Semifinalists

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Discovery Communications, Inc.

Discovery Communications is the leading global real-world media and entertainment company. Discovery has grown from its core property, the Discovery Channel, first launched in the United States in 1985, to current global operations in more than 160 countries and territories with 1.3 billion cumulative subscribers. DCI's over 90 networks of distinctive programming represent 25 network entertainment brands including TLC, Animal Planet, Travel Channel, Discovery Health Channel, Discovery Kids, Discovery Times Channel, The Science Channel, Military Channel, Discovery Home Channel, Discovery en Español, Discovery Kids En Español, Discovery HD Theater, FitTV, Discovery Travel & Living (Viajar y Vivir), Discovery Home & Health and Discovery Real Time. DCI's other properties consist of Discovery Education and Discovery Commerce, which operates 120 Discovery Channel Stores. DCI also distributes BBC America in the United States. DCI's ownership consists of four shareholders: Discovery Holding Company (NASDAQ: DISCA, DISCB), Cox Communications, Inc., Advance/Newhouse Communications and John S. Hendricks, the Company's Founder and Chairman.

Discovery Communications, Inc. partnered with Science Service in 1999 to launch the Discovery Young Scientist Challenge, a national science contest for middle school students designed to encourage the exploration, understanding and communication of science among the next generation of America's youth. The contest encourages young people to explore and understand science by stressing a wide range of diverse disciplines, including problem-solving ability, teamwork, leadership, and especially, oral and written communication.

The contest reflects Discovery's philosophy that science is ultimately a team pursuit; that scientific knowledge is most valuable and effective when shared; and that hands-on experiences, like those offered during the DCYSC, will make a positive and lasting impact on students. DCI believes that the Discovery Channel Young Scientist Challenge will become a tradition in science education, and a natural stepping stone for children who are enthusiastic and inquisitive in elementary school, encouraging their interest in science as they approach high school and college.



**Discovery Communications, Inc. is proud to announce
Elmer's Products, Inc. as a distinguished sponsor of the 2005 DCYSC.**

Elmer's products have been helping teachers and students in the classroom for over 50 years.

With a wide array of products, Elmer's can help budding scientists create the most successful presentation possible!

Science Service

Science Service is a non-profit organization dedicated to advancing the understanding and appreciation of science around the globe through publications, outreach, and science education programs. Science Service was honored with the National Science Board Public Service Award in 2000 for its publication of Science News and its educational programs. In addition to the Discovery Channel Young Scientist Challenge, Science Service administers two of the world's most prestigious science competitions: the Intel Science Talent Search, designed to encourage talented high school seniors who are looking to pursue a career in science or engineering, and the Intel International Science and Engineering Fair, the largest world-wide science competition for students in the 9th through 12th grades.

2005 DCYSC Semifinalists

In the 2005 Discovery Channel Young Scientist Challenge, completed entries were received from 1,976 entrants who were nominated by 269 affiliated fairs representing 45 states, Puerto Rico and the Virgin Islands. The 2005 DCYSC Semifinalists represent 325 schools from 43 states, Puerto Rico and the Virgin Islands. The 400 Semifinalists include 206 male and 194 females. Grades are represented as follows: 28 from 5th grade, 80 from 6th grade, 104 from 7th grade and 188 from 8th grade. The grade listed for each student is for the 2004-2005 school year. By the time of this announcement these students will have advanced to the next grade level.

From this group of 400 Semifinalists, 40 Finalists will be chosen to attend an all-expense paid trip to Washington, DC from October 15-19, 2005 to compete in science challenges. The 40 finalists will compete for discretionary experiential awards and to win over \$40,000 in scholarship monies with the top student winning a \$20,000 scholarship. Finalists will be announced on September 14, 2005.

2005 Discovery Channel Young Scientist Challenge

Semifinalists are listed in order by state, fair, and city of school

ALABAMA

Alabama State Science and Engineering Fair

Phenix City Glenwood Junior High School
Savannah Noel Wright Foster (Grade 6)
Can Clock Drawing Be Used to Screen the Elderly for Alzheimer's Disease?

Greater East Alabama Regional Science and Engineering Fair

Montgomery Eastwood Christian School
Samuel Peter Sumner (Grade 8)
How Well Do Sunglasses Protect the Eye from Ultraviolet Radiation?

Northeast Alabama Regional Junior Academy Science Fair

Wetumpka Wetumpka Intermediate School
Melissa Anne Mims (Grade 6)
Which Material Keeps You Warmer?

North Alabama Regional Science and Engineering Fair

Madison St. John the Baptist Catholic School
Joesph X. Newchurch (Grade 6)
The Effects of Tropospheric Ozone Pollution on Agriculture

ALASKA

Alaska Science and Engineering Fair

Anchorage Central Middle School of Science
Stacy Nicole Wheeler (Grade 8)
To Zinc or Sink

ARIZONA

Arizona American Indian Science and Engineering Fair

Pinon Pinon Unified School District #4 Middle School
Garrett Michael Yazzie (Grade 7)
Use It or Lose It: A Solar Water Heater and Solar Room Heater

Central Arizona Regional Science and Engineering Fair

Chandler Kyrene del Pueblo Middle School
Smitha Ramakrishna (Grade 8)
Where Do Opinions on Stem Cell Research Stem From?

Northern Arizona Regional Science and Engineering Fair

Flagstaff Flagstaff Middle School
Kelsey Aldworth Randall (Grade 8)
The Effects of Cigarette Smoke on Plant Growth

Southern Arizona Regional Science and Engineering Fair

Tucson Bloom Elementary School
Conrad Oliver Hom (Grade 5)
Refraction of Light in Clear Liquids

Tucson

Doolen Middle School

Brigg L. Jannuzi and Teyvan Michael Lowe (Grade 6)

Corrosion

Manzanita Elementary School

Alex Joseph Erstad (Grade 5)

Accuracy and Reproducibility of Small-volume Injections Using Different Syringe Sizes

St. Cyril School

David William Charles (Grade 8)

Teenage Wasteland: Accelerating the Decomposition and Settlement Process in Landfills

ARKANSAS

Central Arkansas Regional Science Fair

Little Rock

Horace Mann Magnet Middle School

Mackenzie Lynn Hull (Grade 8)

Fuel for Your Body! Fuel for Your Home? Ethanol... The Alternative Household Fuel?

Northwest Arkansas Regional Science and Engineering Fair

Bentonville

Washington Junior High School

Katie Nicole Dalton (Grade 8)

The Effects of Different Germination Pretreatments on the Growth of Pea Seeds

Fayetteville

St. Joseph's Catholic School

Nicholas Ryan Boyle (Grade 6)

What's for Lunch?

CALIFORNIA

California Central Valley Science and Engineering Fair

Clovis

Alta Sierra Intermediate School

Kimberly Kawana and Ashley Miyasaki (Grade 8)

Does Recycled Water Affect Grass Growth?

Sanger

Centerville Elementary School

Kioki Babe Forsyth and Althea Jean Senn (Grade 6)

Are More Insects Attracted to White Light or UV Blacklight?

Fairmont Elementary School

Shelby Lynn Constance (Grade 7)

Determining If Scotch-Gard and RIT Sun Guard Can Increase a Fabric's Ability to Block Ultraviolet Radiation: Year Two

Arcata

Pacific Union School

Joshua James Compton (Grade 8)

An Assessment of Barrier Designs in Minimizing the Impact of Tsunami Waves on Shorelines

California State Science Fair

Carpinteria	<u>Carpinteria Middle School</u> Evan Soule Stanford (Grade 8) <i>What Type of Fuel Has the Greatest Energy Per Unit Mass?</i>
El Cerrito	<u>Portola Middle School</u> Nina Budaeva (Grade 8) <i>An Efficient Strategy for Making a Choice from a Finite Stream of Offers</i>
Fresno	<u>Kastner Intermediate School</u> Nilesh Tripuraneni (Grade 8) <i>Is Seawater an Efficient Medium for Electrolysis: A Model for Solar-powered Hydrogen Production</i>
Los Angeles	<u>Ribet A.</u> Chase D. Hagen (Grade 6) <i>Optimum Foundation Design for Model Houses Undergoing an Earthquake</i>
Portola Valley	<u>Corte Madera School</u> Maya Brandt Mathur (Grade 8) <i>Exploring the Uncanny Valley: Quantitative Test of a Theory on Emotional Response to Android Robotic Faces</i>
San Jose	<u>Miller Junior High School</u> David C. Liu (Grade 7) <i>Internet-Based Distributed Computing</i>
San Juan Capistrano	<u>St. Margaret's Episcopal School</u> Alexandra Lewis Simon (Grade 8) <i>Density's Effect on Amplitude: The Untold Story</i>
Santa Barbara	<u>La Colina Junior High School</u> Susan Marie Pasternak (Grade 8) <i>Nature vs. Nature: Eradicating <u>Arundo donax</u> with Allelopathic Leaf Extract Treatments</i>

Greater San Diego Science and Engineering Fair

San Diego	<u>Thurgood Marshall Middle School</u> Shilpa Pramod Argade (Grade 8) <i>Which Milk Is the Best for Your Baby?</i> Bryce Collin Caputo (Grade 8) <i>What Goes Around Comes Around: Turning Trash into Fuel</i> <u>Warren-Walker Middle School</u> Morgan Shannon Keefe (Grade 8) <i>The Use of Alloplastic Implants as Antibiotic Delivery Devices in Facial Deconstructive Surgery</i>
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Synopsys Silicon Valley Science and Technology Championship Presented by Santa Clara Valley Science and Engineering Fair

- Los Gatos St. Mary's School
Lindsay Kathleen Dickerson (Grade 8)
The Dirt on How Microarthropods Make Healthy Soil
- Palo Alto Terman Middle School
Rachel Elgee Eglash (Grade 7)
Effect of Rainfall on Dissolved Oxygen in the Palo Alto Flood Control Basin
- San Jose Miller Junior High School
Narayan Swamy Subramanian (Grade 8)
Do Extreme pH Conditions Quench Respiration in Secondary Wastewater Treatment Mixed Liquor?
- Milpitas Christian School
Nitin Kitchley Egbert (Grade 8)
GPS, Move Over for RLS: A Radio Location System
- Schmal Science Workshop
Sonil Cherkore Bodapati (Grade 8)
Using Sound to Measure Temperature
- Sunnyvale Challenger School
Shaheen Jeeawoody (Grade 7)
The Photochemical Formation of Ozone at Ground Level and Its Effects on Vegetation
- Tri-Valley Science and Engineering Fair**
San Ramon Pine Valley Middle School
Vicki Hsieh (Grade 8)
More Rotors, More Motors, More Power: The New Windmill Design of the Next Generation
- Tong Lu (Grade 8)
Parachutist Problem

COLORADO

Colorado Science and Engineering Fair

- Colorado Springs North Middle School
Skylar Michelle Anderson (Grade 8)
Always B Sharp, Never B Flat, Sometimes B Fractal: Composing with Fractals

Denver Metro Regional Science and Engineering Fair

- Littleton Littleton Academy
Iftin Mohamed Abshir (Grade 8)
The Proof Is in the Print: An Analysis of Fingerprint Patterns within Different Human Ethnicities

CONNECTICUT

Connecticut State Science Fair

Bozrah	<u>Fields Memorial School</u> Heather Nicole Leask (Grade 7) <i>An Investigation of Robot Mobility</i>
Brooklyn	<u>Brooklyn Middle School</u> Bethany Miriya Lyon and Suzanne Marie Slater (Grade 8) <i>The Effect of an Endocrine Disrupting Chemical on Freshwater Organisms</i> Kyle David Wickiser (Grade 7) <i>The Effect of Landfill Runoff on the Growth Rate of White Pines</i>
Burlington	<u>Har-Bur Middle School</u> Michael Andrew Discenza (Grade 8) <i>Hydrogen Fuel Cells, Energy Source of the Future: Investigating Efficiency as a Function of Ohmic Resistance</i>
Fairfield	<u>Hillel Academy</u> Stacey Berkowitz and Hannah Malka Dreyfus (Grade 7) <i>Quantitative Analysis of Marine Protista/Invertebrates as Cancer Inhibitor and Antioxidant</i> David Benjamin Rabbani (Grade 8) <i>Biofuel Production, Analysis, and Effect on the Environment</i> Michael Issac Shrager (Grade 8) <i>Quantitative Analysis of Factors Affecting Long Island Sound Crustacean Decline</i>
Gales Ferry	<u>Ledyard Middle School</u> Elijah Login Mena (Grade 8) <i>Ethanol from Biomass Using Mushrooms</i>
Newington	<u>St. Mary School</u> Andrea Romanka Kolinsky (Grade 7) <i>Are Composites of Wood Stronger than Solid Wood?</i>
Pawcatuck	<u>St. Michael School</u> Kevin Matthew Duignan (Grade 7) <i>What Is the Best Method to Purify Water for Drinking? A Comparison of Chemical and Physical Methods</i>

FLORIDA

Alachua Region Science and Engineering Fair

Gainesville	<u>Kanapaha Middle School</u> Elizabeth Kelly Gause (Grade 7) <i>Is a Skinny Fry Fattier than a Fat Fry?</i> <u>Oak Hall School</u> Gene Bonnette Rodrick (Grade 8) <i>What Are the Bacterial Differences Between Refrigerated and Temperature Abused Whole Oysters and Selected Tissues?</i>
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Gainesville

Westwood Middle School

Matthew Reid Rambo (Grade 8)

Lightning and Gator Football Games: Are Current Lightning Strike Warnings Sufficient to Protect Players and Fans in the Ben Hill Griffin Stadium?

Brevard Intracoastal Regional Science and Engineering Fair

Satellite Beach

DeLaura Middle School

Kristin R. Antoon (Grade 8)

Which Plant Would Change the Martian Environment into a More Earth-like Atmosphere?

Tiffany S. Chan (Grade 8)

How Does Vitamin C Affect a Blood Infection?

Carly Rae Gomez (Grade 8)

The Effects of Fresh Garlic and Garlic Supplements on Inhibiting Escherichia coli and Staphylococcus aureus

Kaylie Marie Smith (Grade 8)

Which Hyperaccumulator Provides the Best Use for Phytoremediation?

Brevard Mainlands Regional Science and Engineering Fair

Melbourne

Johnson Junior High School

Jonathan Daniel Walton (Grade 7)

An Interrupted Life Cycle

Titusville

Madison Middle School

Joshua Steven Jones (Grade 8)

The Investigation of Ultra-efficient Pulsed Motor Technology for Future Application to Over-unity Power Generation

St. Teresa Catholic School

Eugene Sawyer Hayford, III (Grade 8)

Can You Accurately and Safely Detect Lightning Strikes in Your Vicinity with a Homemade Lightning Detector?

Capital Regional Science and Engineering Fair

Tallahassee

Raa Middle School

Ryan-David Rimando Reyes (Grade 6)

How Temperature Affects the Strength of a Magnet

Citrus Regional Science and Engineering Fair

Citrus Springs

Citrus Springs Middle School

Heather Maria Foster (Grade 8)

How Do You Like Your Eggs? A Study of the Variation in Cholesterol Content of a Chicken's Eggs Following Controlled Dietary Alterations

Inverness

Inverness Primary School

Renee Marie Fonseca (Grade 6)

Can Bioretention Be Made Better?

Clay Kiwanis Regional Science and Engineering Fair

Middleburg Davis Home School
Shannon Elora Davis (Grade 6)
Wolf Spiders in Space: Enhancement of Growth in Minimal Light Conditions

East Broward County Science Fair

Coral Springs Forest Glen Middle School
Sarah Beth Benckenstein (Grade 8)
Instinct vs. Memory: Can Fruit Flies Learn?

Plantation American Heritage Middle School
Mrinalini Revathi Prasanna (Grade 7)
Gender Differences in Developmental Milestones in Kids 9-30 Months Ages

Heartland Regional Science and Engineering Fair

Arcadia DeSoto Middle School
Olivia Primrose Pence (Grade 8)
By Observing the Phenotype, Can the Genotype Be Accurately Identified?

Okeechobee Yearling Middle School
Joy Lynn Burnham (Grade 8)
Will Crossbred Cattle Produce Higher Quality Milk? A Study Comparing Holsteins and Holstein-Jersey Crosses

Kelsey Kay Burnham (Grade 6)
Will Silicon Help Plant Growth in South Florida Soils?

Hillsborough Regional Science Fair

Odessa Walker Middle School
Sarah Anne Varner (Grade 6)
Race to the Eye

Tampa John Quincy Adams Middle School
Mark Thomas Parrish (Grade 7)
The Influence of the Angle of Attack on the Coanda Effect During Flight

Martin County Regional Science and Engineering Fair

Hobe Sound SeaWind Elementary School
Chris Kenneth Voelker (Grade 5)
Getting Your Bearings

Northeast Panhandle Regional Science and Engineering Fair

Destin Destin Middle School
Jeremy Chenghow Hsiang (Grade 7)
Salubrious or Deleterious? The Antimicrobial Effect vs. a Potential Source of Infection: A Study of Bacteria in Honey

Palm Beach County Science and Engineering Fair

Boca Raton Logger's Run Middle School
Melanie Paige Kabinoff (Grade 8)
Alternative Therapies for Advance Stage Melanoma in Lumbricus terrestris

Pasco Regional Science and Engineering Fair

Dade City Centennial Middle School
Joshua Wayne Hammer (Grade 6)
How Magnetism Affects the Growth and Eating Habits of Xenopus laevis

Pinellas Regional Science and Engineering Fair

Clearwater Pinellas County Jewish Day School
Forrest Alexander Feld (Grade 8)
Invasion of the Network Snatchers

St. Cecelia Interparochial School
Ashleigh Nicole Stewart (Grade 7)
Florida Freshwater Springs: Aquatic Jewels

St. Paul's School
Erin Patricia Cambier (Grade 7)
Mozart, Music, Mazes, and Mice. The Influence of Music on Learning and Memory

River Region East Science Fair

Ponte Vedra Beach Landrum Middle School
Nathan Thomas Georgette (Grade 8)
Oscillation Calculation III: Mathematically Modeling String Oscillations

Seminole County Regional Science, Mathematics and Engineering Fair

Alamonte Springs Teague Middle School
Sesheta Benu Mwanza (Grade 8)
Does a Curved Universe Affect Its Expansion?

South Brevard Science and Engineering Fair

Melbourne Stone Middle School
Michelle Patricia Brown (Grade 8)
A Study of a Biologically Enhanced Hydroponics Environment

Katherine Ann Smith (Grade 8)
A Study of the Anti-Protozoan Properties of Various Pine Extracts.

W. Melbourne Central Junior High School
Almas U. Abdulla (Grade 7)
Computing a Deterministic Chaos in the Logistic Model for Biological Populations

State Science and Engineering Fair of Florida

Lakeland Resurrection Catholic School
Jonathan Robert Shemansky (Grade 8)
Corrosion Continues: A Third Year Study

Kelly Ann Shemansky (Grade 7)
Rays of Light: A Second Year Study

The Osceola Regional Science Fair

St. Cloud

St. Thomas Aquinas School

Emily G. Bliven (Grade 6)

The Effect of Ultraviolet Radiation, Type A on the Regeneration of Protoeaster nodosus

Francisco Sarabia Halili (Grade 8)

Atkins High Protein Diet... Does It Really Work?

Erin Nicole Lewis (Grade 6)

Which Material Has the Biggest Effect on Underwater Sound Waves?

Thomas Alva Edison East Regional Science Fair

Ft. Myers

Canterbury School

Gena M. Eddy (Grade 8)

How Do Increased Mineral Rates Affect the Potency of Anticancer Properties, Vincristine and Vinblastine, in the Tissue of Catharanthus roseus in Order to Find a Natural Cure for Cancer?

Carl Alex Nist-Lund (Grade 6)

How Weight Affects the Flight Distance of a Spherical Object

Sabrina Lakshmi Prabakran (Grade 8)

Effect of Antibodies to SDF-1 and CD 144 on the Incorporation of Adult Hematopoietic Stem Cells in Choroidal Neovasculature

Dr. Nelson Ying Orange County Science Exposition

Orlando

Corner Lake Middle School

Adrian Surenovich Tatulian (Grade 8)

Interpretation of pH-Dependence of Phospholipase A2 Activity

Hunter's Creek Middle School

Anudeep D. Gosal (Grade 8)

The Reduction of Drift in Model Rocketry

GEORGIA

Georgia State Science and Engineering Fair

Albany

St. Teresa's School

James Alexander Campbell (Grade 7)

The Physics of Cheating in Baseball

Alpharetta

Fulton Science Academy

Cory Alexander Friedman (Grade 7)

The Effect of Light Frequency on the Power Output of a Solar Cell

Athens

Burney Harris Lyons Middle School

Carmina M. Escalante (Grade 6)

Simple vs. Complex Carbs: What Is in Your Fruit Drink?

Athens	<u>St. Joseph School</u> Madelyn Krunkosky (Grade 7) <i>Is There a Difference in the Solubility of Four Different Commercial Sources of Calcium: Coral Calcium, Oyster Shell Calcium, Milk Calcium and Calcium Citrate?</i>
Atlanta	<u>The Davis Academy</u> Samuel Ross Kallman (Grade 6) <i>Stayin' Alive</i>
Cumming	<u>Otwell Middle School</u> Caitlin Christine Norton and Elyse Victoria Weaver (Grade 8) <i>Save that Soil!</i>
Duluth	<u>River Trail Middle School</u> Olga Reine Neyman (Grade 8) <i>Sunscreen's Effectiveness Against Ultraviolet Radiation</i> Soleil Danielle Robichaud (Grade 8) <i>Is Foucault's Sine Law Valid for Different Sized Pendulums?</i>
Thomasville	<u>Central Middle School</u> Elizabeth Lee Kornegay (Grade 7) <i>Oh, My Aching Head!</i>
Tyrone	<u>Flat Rock Middle School</u> Emma Katherine Kearney and William Sheppard Kearney (Grade 8) <i>Brainbow II: The Connection between Affective and Physiological Responses to Color and Color Memory</i>
Warner Robins	<u>Feagin Mill Middle School</u> Shireen Dhir (Grade 8) <i>Cloning of Somatic Embryos in Stevia: A Low Calorie Sweetener</i>

Houston Regional Science and Engineering Fair

Bonaire	<u>Bonaire Middle School</u> Robert Claude Davis and James Michael Gregory (Grade 7) <i>The Effect of Sonar on the Growth of <u>Cabomba caroliniana</u></i>
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HAWAII

Hawaii State Science and Engineering Fair

Honolulu	<u>Mid-Pacific Institute</u> Robert Teruo Zane (Grade 8) <i>Oiling the Waves: Surfing with the Fire of the Ancients</i>
Kailua-Kona	<u>Kealakehe Middle School</u> William Lewis Sims (Grade 8) <i>The Effects of Temperature on the Species of 'Opihi', <u>Cellana exarata</u></i>
Kapa'a	<u>Kapa'a Middle School</u> Aaron Alexander Rozon (Grade 7) <i>Just When You Thought It Was Safe to Go Back in the Water</i>

Keaau Kamehameha Schools, Keaau Campus
Melissa Pomaikai Akiko Luga (Grade 8)
Phase II: Phytochemical Potential of the Melaleuca quinquenervia

Mililani Mililani Middle School
Lucia Mocz (Grade 8)
The Fractal Model: A New Model to Analyze the Development of Fish Scale

ILLINOIS

Heart of Illinois Science and Engineering Fair

Peoria Concordia Lutheran School
Elizabeth Marie Szymke (Grade 8)
Sugar, Sugar

Illinois Junior Academy of Science, Region X Science Fair

Jacksonville Our Savior Grade School
Tyler Andrew Leach and Dustin James Shea (Grade 8)
Extreme Home Make Over by the Science Guys: Significantly Reducing One Family's Exposure to Extremely Low Frequency Electromagnetic Radiation

Illinois Junior Academy of Science, Region XII Science Fair

Freeburg Carl L. Barton School
Kyle Alan Schlatweiler (Grade 8)
Does Mass at Different Parts of a Rocket Affect It's Altitude?

Science Academy of Chicago Science Fair

Chicago Science Academy of Chicago
Nihit U. Shah (Grade 8)
The Effect of Colchicine on Polyploidy

INDIANA

Central Indiana Regional Science and Engineering Fair

Indianapolis Sycamore School
Rebecca Emily-Louise Passarelli (Grade 7)
Body Mass Index: Does It Affect the Blood Glucose Response to a High Glycemic Meal in 10-14 Year Olds?

East Central Indiana Regional Science Fair

Kokomo Northwestern Middle School
Kira Susan Naegeli (Grade 7)
The Effect of Building Variables on Parachute Hang Time and Drifting Distance

Northeastern Indiana Regional Science and Engineering Fair

Ft. Wayne Orchard Day School
Joy Ellen Hines (Grade 7)
Fowl Bacteria? A Study of Antibiotic Resistance in Poultry

Summit Middle School
Lindsay James Crawford (Grade 6)
What Electrochemical Properties Affect a Fuel Cell System's Performance?

Northeastern Indiana Tri-State Regional Science Fair

Garrett Garrett Middle School
David Frederick Argast (Grade 5)
Waterflow in Little Cedar Creek

LaGrange Lakeland Middle School
Joshua Daniel Avery and Nicholas Raymond Pechin (Grade 8)
What's Up with the Water?

Northern Indiana Regional Science and Engineering Fair

Elkhart Northside Middle School
Andrew James Schubert (Grade 7)
Culmination Affecting Performance of Hydrogen Fuel Cells

Southeastern Indiana Regional Science Fair

New Albany Christian Academy of Indiana
Andrew Evan Mattingly (Grade 7)
Determination of Water Quality Using Macroinvertebrates as Bioindicators

Our Lady of Perpetual Help School
John Anthony Bolander (Grade 8)
Detecting Vortices with Polarized Laser Light

West Central Indiana Regional Science and Engineering Fair

Terre Haute Chauncey Rose Middle School
Christie R. Hasbrouck (Grade 6)
Fast Wind Can Be a Drag: What Do Hurricanes and Airplanes Have in Common?

IOWA

Iowa State Science and Technology Fair

Ames Gertrude Fellows Elementary School
Avanthi Sai Ajjarapu (Grade 6)
Is Lung Capacity Gender Based? A Study of the Lung Capacities of Boys and Girls at Fellows Ames Elementary, Ames, IA

Titonka Titonka-Woden-Crystal Lake Middle School
Trevor Thomas Beenken and Andrew Jacob Heyer (Grade 8)
Get My Drift?

KENTUCKY

Central Kentucky Regional Science and Engineering Fair

Lexington Bryan Station Middle School
Cyrus Bennett Saffari (Grade 7)
Micro No--Micro Grow

School for the Creative and Performing Arts
David Kendrick Takahashi (Grade 7)
The Effect of the Number of Propeller Blades on the Performance Efficiency of an Electric Motor

Lexington Winburn Middle School
Justin Tyler Graff (Grade 6)
State of the Bluegrass

Louisville Regional Science Fair

Louisville Meyzeek Middle School
Mark Andrew Vitale (Grade 8)
The Effect of Right- or Left-handedness on Foot Dominance

Daniel Wu (Grade 7)
Differential Rotation as Observed by the Soho Satellite

St. Francis of Assisi School
Marie Elise Clements (Grade 7)
Resveratrol as an Anti-Cancer Agent

Nicholas Dylan Do (Grade 7)
The Effect of Hyperaccumulation on Plants

North Area Counties of Kentucky Exposition of Sciences

Maysville Mason County Middle School
Justin Thomas Robinson (Grade 7)
Are You Making Me Sick?

Southern Kentucky Regional Science Fair

Bowling Green Drakes Creek Middle School
Rebecca L. Wheeler (Grade 8)
Cow vs. Horse

LOUISIANA

Louisiana Science and Engineering Fair

Baton Rouge Glasgow Middle School
Eric James Thomas (Grade 7)
Nature's Wonder: Three Feet Under

Region VII Louisiana Science and Engineering Fair

Baton Rouge Westdale Middle Academy
Vivek Sharma (Grade 8)
The Effects of Electrolytes on the Production of Vitamin D3

MARYLAND

Anne Arundel County Regional Science and Engineering Fair

Annapolis St. Martin's Lutheran School
Robert Walter Jaseph (Grade 6)
The Effect of pH on Mosquito Hatching

Charles County Science Fair

LaPlata Grace Lutheran School
Alexander Robert Tyo (Grade 6)
Don't Let Your Electrical Dollars Get Squeezed Out of Your Insulation

Montgomery Area Science Fair

- Potomac Cabin John Middle School
Juliana Brie Biro (Grade 7)
The Antibacterial Effects of Honey. What's the Buzz on Manuka Honey?
- Silver Spring Takoma Park Middle School
Akimitsu G. Hogge (Grade 8)
Optimizing Structural Integrity of Rigid Block Structures Against a Constant Force with a Genetic Algorithm
- Sneha Trichy Kannan (Grade 8)
Effects of Different Peptides Derived from Pathogens on PBMC's Using ELISPOT Assay

Prince George's Area Science Fair

- Clinton Concordia Lutheran School
Steven E. Brent (Grade 6)
The Power of Acid
- Lusby Mill Creek Middle School
Ryan Lee Moore (Grade 8)
Flying Under the Radar: An Electromagnetic Reflection Experiment

West Maryland Science Exposition

- Oakland Southern Middle School
Joanna Christine Guy (Grade 8)
What Do You Expect: Does Expectation of Difficulty Level Affect Student Test Performance?

MASSACHUSETTS

Massachusetts Region III Science Fair

- North Attleboro North Attleboro Middle School
Mary Lucia Hedberg (Grade 7)
Paddle Perfection? Seeking New Designs with Flume Testing

MICHIGAN

Flint Area Science Fair

- Clarkston Everest Academy
Sarah Marie Pierz (Grade 8)
Moisture Retention: Getting Under Your Skin
- Michael T. Sewell (Grade 6)
Cancer! Antioxidants to the Rescue
- Flint Randels Elementary School
Pierce Guenter Beholz (Grade 5)
To Fly Far or Not to Fly Far, that Is the Question

Michigan Science and Engineering Fair

Beverly Hills

Detroit Country Day Middle School

Nikita Jambulingam (Grade 8)

The Right SPF for Your Vacation Location

Pratyusha Yalamanchi (Grade 8)

The Medical Value of Herbs vs. Antibiotics

Saginaw County Science and Engineering Fair

Saginaw

Handley Elementary School

Aja Jade Philpot (Grade 5)

Plants Love Healthy Foods Too! Which Fertilizer Will Make Your Plants Grow the Fastest?

Saginaw Arts and Sciences Academy

Dalton James Allan (Grade 6)

Can You Hear Me Now? Investigations on Sound Propagation

Nilesh Kaushik Raval (Grade 7)

Comparing the Rate and Specificity of Bacteriocidal Effects of Antibiotics and Phages on Escherichia coli B and Lactococcus lactis

Nicole Elizabeth Smith (Grade 7)

Down by the River: A Summer Analysis of Midland Rivers

Southeast Michigan Science Fair

Ida

Ida Middle School

Matthew Alan Dodds (Grade 7)

Water Power: A Working Model of a Hydroelectric Generator and the Effects of Increased Water Flow

West Michigan Science Challenge

Holland

South Shore Christian Middle School

Aaron John Westendorp (Grade 8)

The Effect of Various Chemicals on Earthworms

Muskegon

Muskegon Christian School

Amber Marie Willea (Grade 6)

What Is the Best Temperature to Store Un-popped Microwave Popcorn to Get the Least Amount of Un-popped Kernels?

Spring Lake

Spring Lake Intermediate School

Chad Robert Eagin (Grade 6)

Send Wars Episode I: The Erosion Control Strikes Back. Which Sand Erosion Control Fencing Is the Most Effective at Preventing Sand from Eroding Off Sand Dunes and Beaches?

MINNESOTA

Minnesota Academy of Science State Fair

Brooklyn Park North View Junior High School
Ashlee Dorisa Kephart (Grade 8)
What Changes Exotic Earthworm's Positive Effect to Negative Effects in Minnesota's Hardwood Forests?

Northeast Minnesota Regional Science Fair

Cloquet Cloquet Middle School
Katrina Skube Korman (Grade 8)
The Effect of Sudden Loss of Pressure, Which Can Occur in Space Shuttle Missions, on the Chlorophyll a Level in Philodendrons

Rochester Regional Science Fair

Rochester Schaeffer Academy
Catherine Elizabeth Ishitani (Grade 7)
The Scoop on Sugar

South Central/North Minnesota Regional Science and Engineering Fair

Austin Southgate Elementary School
David Richard Erdahl and Neil Wallace Erdahl (Grade 5)
Germinating Seeds: The Effect of X-rays on Seed Germination

Chanhassen St. Hubert School
Stephanie Renee Kerkvliet (Grade 7)
Cool Caterpillars

Chaska Guardian Angels School
Nicole Marie Oldsberg (Grade 5)
How Strong Is an Ant?

Farmington Norton Home School
Frank Anthony Norton (Grade 5)
Turning Up the Heat on Vitamin C

Hutchinson Hutchinson Middle School
Mitchell Keith Messner (Grade 6)
The Grip Master

St. Anastasia School
Valerie Marie Suhr (Grade 6)
Which Metal Conducts Heat Fastest?

Mankato Fitzgerald Middle School
Andrew Martin Kjos (Grade 8)
West Nile Progression: Is Culex tarsalis Population Related to Weather?

North Mankato Garfield Elementary School
Alyssa Marie-Hughes Berg (Grade 6)
Burning Calories: Which Food Contains the Most Energy?

Twin Cities Regional Science Fair

- Minnetonka Minnetonka Middle School-East
Calvin Martin Brookman (Grade 6)
What Are the Effects of Road Salt on Our Ecosystem?
- St. Paul Murray Junior High School
Linnea Elizabeth Dahlquist (Grade 7)
Age and Gender Influence on Facial Affect Interpretation
- St. Charles Borromeo School
Elaina Elizabeth Hamann (Grade 6)
Bridges

MISSISSIPPI

Mississippi Region II Science and Engineering Fair

- Jackson New Hope Christian School
Jeremy Richard Baugh (Grade 6)
Are You Causing the Temperature to Rise?

Mississippi Region VI Science and Engineering Fair

- Ocean Springs St. Alphonsus Catholic School
Ian Ferson Green (Grade 6)
Attack of the Cola Acids

Mississippi State Science and Engineering Fair

- Ocean Springs Ocean Springs Middle School
Christopher Ryan Peterson (Grade 8)
An Analysis of the Settlement of the Barnacle, Balanus eburneus as Affected by Sunlight
- Vancleave Vancleave Middle School
Tanner Scott Reid (Grade 8)
Can Light Transfer Heat Energy?

MISSOURI

Greater Kansas City Science and Engineering Fair

- Faucett Mid-Buchanan Junior High School
Andrew Christopher Sass (Grade 8)
The Effects of Different Natural Gases on Buoyancy
- Kansas City Whitefield Academy
Taylor Poteet Kohn (Grade 8)
The Effect of Chemotherapeutic and Natural Agents on Streptococcus viridians
- Olathe, KS Brougham Elementary School
Megan E. Mackiewicz (Grade 5)
Incredible Insulations

Weston

West Platte Middle School

Molly Kate Mathews (Grade 8)

Turn It On, But Beware!

Alyssa Kurtz Ovaitt (Grade 8)

From Feather to Weather: The Effects of the Amount of Feather Fiber in Latex Paint on the Percentage of Gloss Reduction

Carly Ellen Stowe (Grade 8)

Pest Control

Greater St. Louis Science Fair

St. Louis

Incarnate Word

Melissa E. Rey (Grade 5)

The Effect of Colored Light on the Brassica rapa Plant in a Microgravity Environment

Nipher Middle School

Claire Marie Strube (Grade 7)

The Effect of Gravity on Plant Germination and Plant Growth

St. Roch School

Trenton Haven Going (Grade 8)

Water, Fabric and Flame

Mastodon Park Science/Art Connection Fair

Festus

Baker Home School

Michelle Chandra Baker (Grade 8)

Math in Medicine: A Meta-Analysis of the Influence of Papain on Cancers

Ozarks Science and Engineering Fair

Springfield

Pleasant View Middle School

Julie Nicole Putnam (Grade 8)

Zeitgeber: Its Affect on Circadian Rhythms of Chameleons

St. Agnes School

Logan Patrick Green (Grade 6)

Don't Dry Up

St. Joseph School

Weston Michael Hunter (Grade 6)

Got Gas?

Three Rivers Regional Science and Engineering Fair

Chillicothe

Chillicothe Junior High School

Tyler Alan Dietzschold (Grade 8)

The Effect of Percent Protein on Daily Gain, Loin Eye Area and Backfat in Growing Swine

MONTANA

Deaconess Billings Clinic Research Division Southeast

Billings Ponderosa Elementary School
Austin Cole Eastman (Grade 6)
The Yellow Submarine: The Dynamics of Positive, Neutral and Negative Bouyancy

St. Francis Intermediate School
Jasper Layne Wines (Grade 5)
Got Roaches?

Livingston Sleeping Giant Middle School
Ethan R. Perry (Grade 8)
Here Comes the Sun

Winans Elementary School
Jacob P. Perry (Grade 5)
Blowin' in the Wind

Montana Region II Science and Engineering Fair

Ulm Ulm School
Severin Hanson Gilbert (Grade 6)
Science Goes Splat

Montana Science Fair

Sunburst Sunburst Elementary School
Cole Robert Ratzburg (Grade 6)
The Effects of Growth Implants on Desirable Characteristics in Heifers Using Ultrasound Technology

NEVADA

Southern Nevada Science Fair

Las Vegas Odyssey Charter School
Megan Rebecca Maloney (Grade 8)
The BabySeater: What Can Be Done about Babies Dying When Forgotten in the Car?

NEW JERSEY

Chester Science Fair

Chester Black River Middle School
Amanda Lauren Brzezowski (Grade 8)
A Fungus Among Us: The Effect of Different Disinfectants on Yeast Growth

Andrew Jung (Grade 8)
What Is the Effect of Different Windmill Turbine Designs on Their Output?

Daniel Viray Turney (Grade 7)
Phytoremediation: What's Old Is New Again

Mercer Science and Engineering Fair

Princeton

Westerly Learning Center

Elizabeth Rory Nachbar (Grade 6)

Can You Power a Light Bulb with Other Fruits Besides a Potato, and When the Energy Runs Out, Can You Recharge It with Solar Energy?

South 17th Central Ward Community Science Fair

Newark

South 17th Street School

Darrell Juwan Stallings (Grade 6)

Oil Be Seeing You

NEW MEXICO

New Mexico Science and Engineering Fair

Las Cruces

Sierra Middle School

Katherine Elizabeth Grandle (Grade 8)

Pungent pH

Los Alamos

Pinon Elementary School

Emily Elizabeth Tencate (Grade 6)

SIM Desert—Coyotes and Rabbits: The Predator-Prey Problem

Portales

Zablotsky Home School

Alexandra Danielle Zablotsky (Grade 6)

The Antibacterial Properties of Honey: Going Beyond the Taste

Socorro

McCoy Home School

Isabel Louise McCoy (Grade 6)

Spectral Analysis of Chemical Chlorophyll in Solution

Northwestern New Mexico Regional Science and Engineering Fair

Albuquerque

Jefferson Middle School

Carson Richard Kent (Grade 6)

Mathematical Differences in Music

San Felipe Pueblo

San Felipe Pueblo Elementary School

Andrew Alexander Acoya (Grade 7)

Preservation of Pueblo Indian Ceremonial Feathers

San Juan New Mexico Regional Science and Engineering Fair

Farmington

Heights Middle School

Karysta Brienne Donisthorpe (Grade 6)

Petroleum Alternatives: It's a Gas

Tibbetts Junior High School

Zak Link Nelson (Grade 6)

Math or Knot

NEW YORK

Central Western Section—Science Teacher's Association of New York State Science Congress

Pittsford

Pittsford Middle School

Sheel Tyle (Grade 8)

The Effect of Muller Cells on the Survival of Photoreceptor Cells in vitro: A Breakthrough in Retinal Eye Diseases

Sujay Tyle (Grade 7)

Cellulase Production by Clostridium thermocellum on Different Substrates for Alternative Fuel Development: Strides Towards More Efficient Ethanol Production

Dutchess County Regional Science Fair

Hopewell Junction

St. Denis-St. Columba School

Donato Saverio Forlenza (Grade 6)

Spider Silk: One of the Seven Great Wonders of the Animal Kingdom

Long Island Science and Engineering Fair

Lawrence

Lawrence Middle School

Michael Scott Aledort (Grade 8)

Diatoms as Bioindicators

Northport

Northport Middle School

Brendan John Dwyer (Grade 8)

A Spectral Analysis of the Effects of Light Pollution on the Pennsylvania Firefly (Photuris pennsylvannicus)

The Mott Hall School – I.S. 223 Science Fair

New York City

Mott Hall School / I.S. 223

Dorisol Inoa and Xiaojie Zhang (Grade 8)

Determining the Fluorescent Signature of Cadmium Sulfide

Wacira G. Maina and Nicholas Luis Medina (Grade 7)

How Are Your Neurons Doing Today?: How Does Loss of Neurons by Radiation Affect Spatial Memory Acquisition in Lab Mice?

Utica College Regional Science Fair

New Hartford

Ralph Perry Junior High School

Akhil Reddy (Grade 8)

Do You Know What You're Drinking? The Bacterial Content in Reused Water Bottles

NORTH CAROLINA

Metrolina Regional Scholars Academy Science Fair

Charlotte

Metrolina Regional Scholars Academy

Kevin John Rocker (Grade 6)

A Study on the Effect of Launch Angle on Projectile Distance

North Carolina State Science Fair

Dunn

Midway Elementary School

Brandon Kenneth Honeycutt (Grade 5)

Bird's Eye View Café: Which Color of Bird Feeder Attracts More Birds?

Greenville St. Peter's School
Suzanne Phelps Nelson (Grade 7)
Leave It to Beavers

Mooreville Lake Norman Elementary School
Caroline Laurens deSaussure (Grade 5)
Turn That Darn Thing Down!

NORTH DAKOTA

Northeast North Dakota Regional Science and Engineering Fair

Grand Forks South Middle School
Benjamin Chang Sun (Grade 7)
How Salinity Affects Microorganisms

OHIO

Buckeye Science and Engineering Fair

Bellefontaine Benjamin Logan Middle School
Andrew Jacob Haun (Grade 8)
Will Livestock Manure Provide Sufficient Nutrients for Normal Plant Growth?

Bluffton Bluffton Middle School
Brittany Ann Sheehan (Grade 8)
The Effects of Regular Stretching of the Inner and Posterior Thigh Muscles

Columbus St. Agatha School
Brian F. O'Neill (Grade 7)
Raise Your Hand: Improving the Manual Dexterity of the Left Hand

Millersburg West Holmes Middle School
Michael James Anthony and David James Bishop (Grade 7)
Optimizing Rocket Engine Performance

Martin Franklin Overholt (Grade 8)
Rot or Not: Which Is the Most Effective Treatment for an Epidermal Staph Infection of the Hoof?

Miami Valley Science and Engineering Fair

Springfield Rockway Middle School
Zachary M. Henz (Grade 8)
Investigation of Illumination

Northeastern Ohio Science and Engineering Fair

Parma Heights Incarnate Word Academy
Leah Kirsten Hirsch (Grade 8)
"Wanna Play?...Think Again. The Effects of Arsenic in CCA-Treated Lumber to Plant and Animal Life

Pepper Pike Gross Schechter Day School
Rebecca Ariel Levinsky (Grade 7)
Foot and Hand Dominance

Shaker Heights Laurel Middle School
Gabrielle Nina Haigh (Grade 8)
For the Benefit of Don Quixote

Solon Solon Middle School
Gregory M. Lavins (Grade 8)
Hidden Ethyl Alcohol in Soda Pop, Flavored Beverages and Other Food Items

Northwest Ohio Science and Engineering Fair

Pettisville Pettisville Junior Senior High School
Yu LinLin Huang (Grade 8)
Celestial Navigation vs. GPS

Ohio Region XIII Science and Engineering Fair

North Canton North Canton Middle School
Ryan Michael Mansfield (Grade 7)
A Greenhouse Gas Demonstration

Southeastern Ohio Regional Science and Engineering Fair

Chillicothe Bishop Flaget School
Colleen Marie Ryan (Grade 6)
Making Bio Diesel Fuel from Soybean Oil

OKLAHOMA

Bartlesville District Science Fair

Barnsdall Barnsdall Elementary School
Matthew Darryl Chuning (Grade 5)
Students vs. Teachers: Whose Fine Motor Skills Are Most Affected by Caffeine?

Bartlesville Madison Middle School
Melissa Nicole Carvell (Grade 8)
NASA Needs Zero, Phase Two: A Study to Achieve a Zero Coefficient of Linear Thermal Expansion

Central Oklahoma Regional Science and Engineering Fair

Norman All Saints Catholic School
Tristan Amelia Sullivan-Wilson (Grade 7)
Seed Roots

East Central Oklahoma Regional Science and Engineering Fair

Comanche Comanche Middle School
Cody Frost Ressel (Grade 6)
Honey vs. Bacteria

Kyle Dean Ressel (Grade 7)
Elusive Pollution

Oklahoma State Science and Engineering Fair

Moore Highland East Junior High School
Nathan T. Hasbrook and Scott E. Hasbrook (Grade 8)
Waves of Destruction: Calculating the Magnitude of Landslide Tsunamis

Norman All Saints Catholic School
Julianne M. Bragg (Grade 8)
Even a Tad of a RAD Is Bad: The Effect of X-ray on Photographic Film

Tulsa Regional Science and Engineering Fair

Bixby Brassfield 5th/6th Grade Center
Jackson Alan Haffener (Grade 6)
The Effect of Portland Cement on the Strength of Mortar

Tulsa Edison Preparatory School
Hannah M. Shoenhard (Grade 6)
Tsunamis: The Effects of Varying Underwater Material on Wave Height and Island Erosion

OREGON

Aardvark Science Exposition

Portland Oregon Episcopal School
Ankur Gupta (Grade 8)
Threatened Immunity

Alisha Ashok Kabadi (Grade 8)
Corrosion on Ferrous Alloys

Elliot Scott Scheer, Alex Inho Tallian and Eric Michael Wilson (Grade 8)
Nicotine's Effect on Cell Proliferation

Beaverton School District Science Exposition

Beaverton Whitford Middle School
Joshua Miles Dreyzen and Mark Adam Mihalik (Grade 7)
Splitting Water Molecules with Electricity

Northwest Life Science Exposition

Beaverton Highland Park Middle School
Stephanie Christine Marie Barnes (Grade 8)
How Does a Raised Level of Carbon Dioxide Affect a Plant's Growth Rate?

Meadow Park Middle School
Yale Wang Fan (Grade 7)
Polymers Prefigured

Valley Catholic Middle School
Carolyn Claire Cartwright (Grade 8)
Slick Skis

Corvallis Cheldelin Middle School
Brian Son and Tae-Han Yeo (Grade 7)
Mystery Solved: Burning Candle on Its Deodorizing Power

Hillsboro Evergreen Middle School
Sarah Frances Doyle (Grade 7)
Differentiating the Kingdoms Using DNA Fingerprinting

PENNSYLVANIA

Delaware Valley Science Fairs, Inc.

- Brick, NJ Gray Homeschool
Joseph Christopher Schiavone (Grade 7)
So Toto, Are We in Kansas?
- Chalfont Unami Middle School
John D. Wu (Grade 7)
Do We Really Look Alike?
- Doylestown Lenape Middle School
Sara Kate Spiro (Grade 8)
Does Cellular Phone Use Affect Driving Ability on a Simulated Game?
- Drexel Hill Holy Child Academy
Moira Kathleen McGowan (Grade 7)
Exercise Effectiveness
- Norristown Arcola Intermediate School
Katherine Eads Anderson (Grade 8)
The Effects of Valerian Root on the Heart Rate of Daphnia

Jennifer Huang (Grade 7)
Which Brand of Orange Juice Contains the Most Vitamin C?

Benjamin Paul Song (Grade 6)
Why Did Doctors Give Me a Second Antibiotic for My Ear Infections?

Franklin Science and Technology Fair

- Greencastle Greencastle-Antrim Middle School
Amy R. Crider (Grade 8)
Get the Lead Out

Patriot-News Capital Area Science and Engineering Fair

- Duncannon Susquenita Middle School
John Thurman Riter (Grade 8)
Dairy Relief for the Lactose Intolerant

Pittsburgh Regional Science and Engineering Fair

- Moon Township Rhema Christian School
Stephanie Alicia Hatem (Grade 6)
Electromagnetic Field Strength vs. Distance
- Murrysville Mother of Sorrows School
Sara Cecilia Perez (Grade 8)
Fuels for the Future
- Upper St. Clair Fort Couch Middle School
Matt George Boyas (Grade 8)
Flashbulb Memories: How Much Do You Remember?

Reading and Berks Science and Engineering Fair

Reading

Holy Guardian Angels

Kelly Lynn Cholko (Grade 7)

Do Fifth Grade Students Learn More from Lecture or Video?

Reading Southern Middle School

Ann Chris Jacob (Grade 7)

The Adhesive Strength of Different Bonding Agents Used in Dentistry

York County Science and Engineering Fair

York

Central York Middle School

Alexandra L. Ghaben (Grade 7)

Warming Up the Cool Glow of Lightsticks: A Study of Chemiluminescence

York Suburban Middle School

Casey Allison George (Grade 8)

The Effect of a Soluble Calcium Solution on Elodea, a Vascular Plant, and Algae, a Non-vascular Plant

PUERTO RICO

Radians Science and Engineering Fair

Cayey

Colegio Radians

Katherine Elisa Ruiz-Diaz (Grade 7)

Antibacterial Properties of a Suspension of Punica

San Juan Archdiocesan Region I Science Fair

Guaynabo

Colegio San Ignacio de Loyola

Robert Paul Calvesbert (Grade 8)

Salinity Tolerance of the Grass Seashore Paspalum

San Juan

Academia del Perpetuo Socorro

Ana Gabriela Rodriguez (Grade 8)

Reaction Time Measurements in Adolescents Exposed to Different Sound Levels

Southwestern Educational Society, Inc. Regional Science Fair

Mayaguez

Southwestern Educational Society

Darlene Cruz (Grade 8)

Wanted: Hands. Charge: Carrying Harmful Weapons

Laura Maria Lopez (Grade 8)

Are Oils Safe for Frying?

Roberto Andres Rios (Grade 8)

In Situ Experiments of the Lung

RHODE ISLAND

Rhode Island Science and Engineering Fair

Barrington

Barrington Middle School

Will Kendrick Conaway and Bryan Lloyd Hughes (Grade 8)

Wings of Knowledge: A Study of Wing Design and Aeronautical Principles

Barrington St. Luke's School
Jamie Alison Davol Yates (Grade 8)
Does Exposure to Plastic Chemicals Affect the Ability of the Immune System to Fight Breast Cancer?

SOUTH CAROLINA

Anderson-Oconee-Pickens Regional Science Fair

Anderson McCants Middle School
Brandon N. Baker (Grade 7)
The Effects of Percentage and Composition of Alginate on Gel Strength

Central South Carolina Region II Science and Engineering Fair

Columbia Crayton Middle School
Emily Ann Eisenstadt (Grade 8)
Get the Lead Out

Crossroads Middle School
Spencer Bennett Skelley (Grade 7)
Filtering Runoff: A Fishpond in Need

Dent Middle School
Trevor Warren Auman (Grade 8)
The Effects of Natural Compounds on the Growth of E. coli and S. typhimurium

Chandler Matthew Barton (Grade 8)
Debugging Termites

Rachitha Rajan (Grade 8)
HEY! Don't Peek! There's No Soil!

Harbison West Elementary School
Velina Roumenova Kozareva (Grade 5)
Back Off, Ants!

St. Joseph School
Grace Carroll Zimmermann (Grade 5)
Bow Wow Thump Thump

Greenville County Science and Engineering Fair

Greenville Pelham Road Elementary School
Erika Lynn Mino (Grade 5)
Carnivore or Herbivore: Do Students Like Meat or Vegetables for Lunch?

Low Country Science Fair

Charleston Porter-Gaud School
Anne Virginia Cai (Grade 7)
Radiation Invasion: The Effect of Radiation on the Growth of Sugar Snap

Piedmont South Carolina Region III Science Fair

Duncan D. R. Hill Middle School
Seth Gaston Shelton (Grade 8)
Do Rivers Need Forests? Deforestation and Thermal Pollution, Part II: The Summer Solstice Study

SOUTH DAKOTA

Northern South Dakota Science & Math Fair

Aberdeen

Simmons Middle School

Tyler Glen Brown (Grade 8)

Sulfur Dioxide and Its Effect on Tardigrades

South Central South Dakota Science and Engineering Fair

Corsica

Corsica Middle

Sarah Margaret Luebke (Grade 8)

Bacterial Fertilizers

Ashley Lynn Van Genderen (Grade 8)

Now You See It... Now You Don't

TENNESSEE

Memphis-Shelby County Science and Engineering Fair

Memphis

Grace St. Luke's Episcopal School

Samantha Sparr Taylor (Grade 6)

A Piggy Bank Is Not the Only Way to Save Pennies... Try Copper!

Middle Tennessee Science and Engineering Fair

Clarksville

Rossvie Middle School

Samuel Joseph Thompson (Grade 6)

3 - 2 - 1 Lift Off!

Southern Appalachian Science and Engineering Fair

Maryville

Heritage Middle School

Taylor Wesley Jones (Grade 6)

A Germicidal Light Zaps the Bugs that Bite

TEXAS

Alamo Regional Science and Engineering Fair

San Antonio

Keystone Junior High School

Michael A. Flatter, Aaron S. Greenfield and Richard A. Sparr (Grade 6)

The Physics of Oscillatoria

Zachary Michael Ogle (Grade 7)

A Comparison of Growth Rates of Pisum sativum (Sugar Ann Peas) Grown in Simulated Martian Soil Under Simulated Martian Light and Incrementally Increased Light Intensities

The Buckner Fanning Christian School at Mission Springs

Cyanna Skye Edwards (Grade 7)

Of Mice and Supermen: Increasing the Lifespan of Nerves After Trauma Cuts Off Nerve Growth Factor by Placing Nerves from Mice in Different Mediums

Clair Lorraine McMahon (Grade 8)

Yes We Have No Bananas or Strawberries!

Ashley Michelle Vara (Grade 7)

Spice Things Up with Cilantro! A Study on Different Concentrations of Dodecenal and Their Effects on Salmonella enteritidis

San Antonio St. Luke's Episcopal School
Jeness Suzanne Gough (Grade 8)
Dying to Color

Austin Energy Science and Engineering Fair

Austin Boone Elementary School
Patrick James DeVarney (Grade 5)
*Turn the Lights Off, I Want to See the Stars: An Experiment Testing Light
Pollution*

Depwe Academy
Elizabeth Evan Depwe (Grade 8)
Wave Dissipation

Laurel Mountain Elementary School
Annapurna Deepti Ravel (Grade 5)
Personal Solar Heat Pack

Wimberley St. Stephen's Episcopal School
Colin James Iliff (Grade 6)
Insulating Factors of Natural Building Materials

Brazos Valley Regional Science and Engineering Fair

College Station A & M Consolidated Middle School
Sarah R. Bowman (Grade 7)
Soaring Softballs

Dallas Morning News-Toyota Regional Science and Engineering Fair

Coppell Coppell Middle School West
Ruslan Alan Werntz (Grade 8)
The Truth and Lies of Blood Glucose Monitoring Systems

Dallas Harmony Science Academy
Vivienne Chiamaka Echendu (Grade 7)
Have Money to Burn

District XI Texas Science Fair

San Angelo Lincoln Junior High School
Stephanie Danielle Eckert (Grade 7)
*What Effect Will Truncating Numbers from Credit Card Receipts Have on
Identity Theft?*

East Texas Regional Science Fair

Tyler Moore Middle School
Jessica Lea Emery (Grade 6)
Water Fun

ExxonMobil Texas Science and Engineering Fair

Allen Curtis Middle School
Camden Yinhung Miller (Grade 8)
*Bee Smart: The Effects of Ethanol Extracts of Propolis on Gram-positive and
Gram-negative Bacteria*

Bryan	<u>St. Joseph Catholic School</u> Mike Allen Rathbone (Grade 7) <i>Water Hardness in the Brazes Valley</i>
Dripping Springs	<u>Dripping Springs Middle School</u> Katherine Lisa Adams (Grade 7) <i>Another Simple Learning Machine</i>
Midland	<u>Washington Math and Science Magnet School</u> Alexandra Sara Black (Grade 6) <i>Analemma</i>
Plano	<u>C. M. Rice Middle School</u> Qiongqiong Yang (Grade 8) <i>Computer Simulation on How Temperature Affects Snowflake Growth</i>
	<u>Robinson Middle School</u> Amanda Jane Lu (Grade 8) <i>Got Milk? Get Fruit: The Effect of Fruit on Hydrolyzing Lactose in Milk</i>
	Monica Kavari Tamil (Grade 8) <i>Solar Cells vs. Fuel Cells</i>
	<u>Wilson Middle School</u> Hrishikesh Santosh Joshi (Grade 8) <i>Sun's Differential Rotation</i>
San Antonio	<u>Eisenhower Middle School</u> Spencer Yeakey Conn (Grade 8) <i>Winging It</i>
	<u>Keystone Junior High School</u> Neela Devi Thangada (Grade 8) <i>The Effects of Various Nutrient Concentrations on the Cloning of the Eye of the <u>Solanum tuberosum</u> at Multiple Stages</i>
	<u>Texas Military Institute School</u> Alison Michelle Miller (Grade 7) <i>Tachinid Flies</i>
Seabrook	<u>Seabrook Intermediate School</u> Alexander Abuadas and Christian Ivan Bionat (Grade 8) <i>Wood Twister</i>
Trophy Club	<u>Medlin Middle School</u> Cara Charlene Hayward (Grade 7) <i>Is Your Cell Phone Having a Bad Flare Day?</i>

Fort Worth Regional Science Fair

Argyle	<u>Liberty Christian School</u> Kristen Ashley Medo (Grade 8) <i>Burn Baby Burn</i>
Arlington	<u>T. A. Howard Middle School</u> Trevor Harrison May (Grade 8) <i>Red Harvester Ant Seed Identification Field Study</i>
Fort Worth	<u>Dunbar Middle School</u> Pinaki Bose (Grade 8) <i>Biodegradable Polymer Composites: The Next Generation</i>

Red River Regional Science and Engineering Fair

Burkburnett	<u>Hardin Elementary School</u> Jeffrey Austin McShan (Grade 5) <i>Static Power</i>
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Science and Engineering Fair of Houston

Conroe	<u>Peet Junior High School</u> Kodi South Tapie (Grade 7) <i>A Handful of Letters</i>
Seabrook	<u>Seabrook Intermediate School</u> Manpreet Kaur (Grade 7) <i>How Long to Cook or Not to Cook?</i>
Sugar Land	<u>Fort Settlement Middle School</u> Carolyn Mao (Grade 8) <i>When Wireless Meets Cordless</i>
The Woodlands	<u>Branch Crossing Junior High School</u> Marianne Braun and Anushri R. Kushwaha (Grade 8) <i>Big Achievements in a Little World</i> Katherine Mary James (Grade 8) <i>Can Ocean Waves Be Used to Generate Electricity Using Motor and Impellar Blades as Well as Various Rock and Sand Formations?</i>

South Plains Regional Science and Engineering Fair

Slaton	<u>O. L. Slaton Jr. High School</u> Matthew John Rodriguez (Grade 7) <i>Jewelry to Die For</i>
Tyler	<u>All Saints Episcopal School</u> Aaron Lee Young (Grade 6) <i>Reflection Connection</i>

UTAH

Central Utah Science and Engineering Fair

Alpine	<u>Westfield Elementary School</u> Anthony Durant Marcello Jr. (Grade 5) <i>Local Noon and Longitude Clock</i>
Heber	<u>Rocky Mountain Middle School</u> Maurissa Jane Weight (Grade 6) <i>Soaking Soggy Soil</i>
Heber City	<u>J. R. Smith Elementary School</u> Kayson Levi Conlin (Grade 5) <i>The Caffeine Jitters: Real or Imagined?</i>
Lehi	<u>Sego Lily Elementary School</u> Colby Robert Foote (Grade 5) <i>The Power of Reflection</i>
Lindon	<u>Timpanogos Academy</u> Robert Bruce Reay (Grade 6) <i>Tetherball Trouble!</i>
Midvale	<u>Midvale Middle School</u> Rachelle Baker (Grade 8) <i>Radical Refraction</i>
Orem	<u>Northridge Elementary School</u> Brandon Luke Bringhurst (Grade 6) <i>Oh, Deer!</i>
Springville	<u>Springville Junior High School</u> Spencer Gordon Larson (Grade 8) <i>An Analysis of Lead and Arsenic Contamination Levels in Butterfield Creek and Herriman</i>

Salt Lake Valley Regional Science and Engineering Fair

North Lehi	<u>Willow Creek Middle School</u> Alexander Tyler Uribe (Grade 8) <i>On the Investigation for the Quantum State of the Photoelectric Effect on a Thermally Expanded Zinc Plate</i>
	<u>JE Cosgriff Memorial School</u> John Robert Foye (Grade 8) <i>Potential Control of Dangerous Truck Wheel Spray</i>
	<u>Madeleine Choir School</u> Christina Rose Woltz (Grade 6) <i>Which Shape of Ice Cools Water Fastest?</i>
	<u>Morningside Elementary School</u> Phillip Heinz Sossenheimer (Grade 6) <i>Ground Level Ozone and Our Air</i>

Salt Lake City Wasatch Junior High School
Luke Benjamin Schunk (Grade 7)
Sound Insulation

VIRGIN ISLANDS

The Good Hope School Science Fair

Frederiksted Good Hope School
Ashlee Erica Douglas (Grade 7)
Is It Full Yet?

VIRGINIA

Central Virginia Regional Science Fair

Forest Forest Elementary School
Chad William Gottuso (Grade 5)
Will the Variety of Projectiles Always Affect How They Are Catapulted?

Metro Richmond Science Fair

Richmond Moody Middle School
Alexis Haley Bennett (Grade 7)
The Effect of Talking on a Cell Phone and Listening to Music on Reaction Time

Apurva Pande (Grade 7)
The Effect of Salt on the Heat Retention Capacity of Water

Northern Virginia Science and Engineering Fair

Arlington Swanson Middle School
Mary Gallagher (Grade 8)
Habitat Restoration

Williamsburg Middle School
Nate Dow Coddington (Grade 8)
The Effect of Predator Calls on Bird Behavior

Falls Church George Mason Middle School
Madeline Claire Whittle (Grade 8)
Golden Music: Evidence of ϕ (phi) in the Western Musical Scale

Piedmont Regional Science Fair

Charlottesville Buford Middle School
Anthony Gulotta (Grade 8)
Out with a Bang? Eddy Current Interference in a Linear Electromagnetic Accelerator

Stafford Stafford Middle School
Dylan Joseph Drakes (Grade 7)
The Effect of Pressure on Sparks

Washington Rappahannock County Elementary School
Austin James Burnett (Grade 7)
Employing Statistical Analysis to Determine the Effects of Acid Rain on the Environment (The Monte Carlo Effect)

Tidewater Science Fair

Newport News Hines Middle School
Adam West Chappell (Grade 6)
What Is the Effect of Cinnamon on the Blood Glucose Levels on a Type-II Diabetic?

Western Virginia Regional Science Fair

Roanoke Hidden Valley Junior High School
John Tyler Cook (Grade 8)
Ornithopter Wing Pitch Comparison

WASHINGTON

Mid-Columbia Regional Science and Engineering Fair

Grandview Grandview Middle School
Cheyen Marie Schenck (Grade 8)
How Much Lead Is Present in Imported Candies as Measured by Atomic Absorption?

Kennewick Desert Hills Middle School
Akshai Baskaran (Grade 6)
What Pollutants and Impurities Affect the Melting of Glaciers?

Richland Christ the King School
Victor Lei Peng (Grade 7)
Ammonia Diffusion Rates in Air, Water and Solid

South Sound Regional Science Fair

Olympia Thurgood Marshall Middle School
Vamsi Chunduru (Grade 6)
How Random Is Random Indeed?

Washington State Science and Engineering Fair

Lynnwood Oak Heights Elementary School
Tyler Scott Baker (Grade 6)
Balsa x 4 = Strong Bridge!

Olympia McKenny Elementary School
Liam Patrick Francis McCormick (Grade 5)
The Trebuchet: Relationship between Counterweight Mass and the Distance Traveled by a Projectile

WISCONSIN

Milwaukee Regional Science and Engineering Fair

Shorewood Shorewood Intermediate School
Amanda Lorraine Armstrong (Grade 8)
What Is the Correlation Between the Brain Waves of Someone Who Speaks Their Native and Learned Language?

WYOMING

Southeast Wyoming Regional Science Fair

Laramie Spring Creek Elementary School
Franklin Augustus Hinckley (Grade 6)
Arrow Ballistics

Harraz MohdReza (Grade 6)
Turmeric: Is It the Cure?

Wyoming State Science Fair

Casper Poison Spider Elementary School
Travis Russel Scharosch (Grade 7)
Aerodynamics for Paper Projectiles

New Castle Newcastle Middle School
Bailey Holly Terry (Grade 7)
Asian Invaders (Banded Elm Bark Beetles): Are They Lurking in Your Town?

Pinedale Pinedale Middle School
Amy Jane David and Jayne B. Thompson (Grade 7)
When the Dust Settles, Effects of Dust on Reflectivity and Melt Rate of Snow and Ice

Bernadette Rose Nelson (Grade 7)
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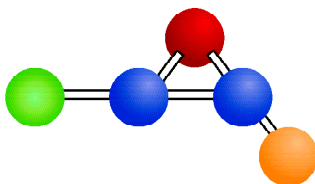
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