2012 New Mexico State Science and Engineering Fair Winners

Senior Division Physical Sciences  
Grand Award  
Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Senior Division in the field of Physical Sciences  
All-expenses paid trip to the International Science and Engineering Fair in Pittsburgh, PA, where they are eligible to compete as exhibitors  
Nikita M. Bogdanov  
Albuquerque Academy, Albuquerque  
Characterizing the Effects of Asteroid Belt Perturbations on the Orbits of the Inner Planets  
Katherine L. Cordwell  
Manzano High School, Albuquerque  
Completing Graphs  
Michael Dugas  
Carlsbad High School, Carlsbad  
Silver Superconductors Is It Possible?

Senior Division Life Sciences Grand Award  
Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Senior Division in the field of Life Sciences  
All-expenses paid trip to the International Science and Engineering Fair in Pittsburgh, PA, where they are eligible to compete as exhibitors  
Serene Akkad  
Albuq. School of Excellence, Albuquerque  
Exploring the Antibacterial Properties of 2 Polymers and 2 Antibiotics on 2 Bacteria  
Jenene Akkad  
Albuq. School of Excellence, Albuquerque  
Exploring the Antibacterial Properties of 2 Polymers and 2 Antibiotics on 2 Bacteria  
Soiba K. Mansoor  
Albuq. Institute for Math and Science, Albuquerque  
Diabetes: A Rising Epidemic? Or Can It Be Controlled?

Wayne W. Vigil, Jr.  
Grants High School, Grants  
Electric Algae Proliferation
Junior Division Physical Sciences
Grand Award
Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Junior Division in the field of Physical Sciences
A graphing calculator; a $100 cash award; and subscription to Science News
Sara S. Manshad
Sierra Middle School, Las Cruces
Multimodal Graphs for the Visually Handicapped, Phase 3

Junior Division Life Sciences Grand Award
Highest award given by New Mexico Science and Engineering Fair to an exhibitor in the Junior Division in the field of Life Sciences
A graphing calculator; a $100 cash award; and subscription to Science News
Sarah R. Dallo
Albuq. School of Excellence, Albuquerque
Bright Lights Big Sea

SR Zoology
First Place
Kathleen B. Connell
Albq. Institute for Math and Science, Albuquerque
Dietary and Pest Considerations in Rearing Chelorrhina Polyphemus Larvae

Second Place
Stephanie M. Swope
Deming High School, Deming
Squeek Squeek

Third Place
Noah F. Tonrey
Taos High School, Taos
Cool Factor: Mentha Piperita

Honorable Mention
Fiona G. McCrossin
Las Cruces High School, Las Cruces
Siamang Sibling Provides Infant Care: Evidence for Link Between Teaching and Cooperative Breeding
Laura M. Sanchez  
Grants High School, Grants  
Relevant Taxonomy: Grasshoppers, Crickets, Katydid

Jordon M. Woodbury  
Grants High School, Grants  
Which Selected Grasses Native to Cibola County Contain the Most Protein

SR Physics & Astronomy  
First Place  
Nikita M. Bogdanov  
Albuquerque Academy, Albuquerque  
Characterizing the Effects of Asteroid Belt Perturbations on the Orbits of the Inner Planets

Second Place  
Travis N. Crockett  
Sue Cleveland High School, Rio Rancho  
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite

Third Place  
Jeongmin Lee  
Las Cruces High School, Las Cruces  
Enhancing Raman Scattering

Honorable Mention  
Rosemary E Elliott Smith  
Monte Del Sol Charter School, Santa Fe  
Things Fall Apart: Entropy in the Macroscopic World

Danny W. Lin  
Grants High School, Grants  
Bloody Laser

SR Microbiology  
First Place  
Jenene Akkad  
Albuq. School of Excellence, Albuquerque  
Exploring the Antibacterial Properties of 2 Polymers and 2 Antibiotics on 2 Bacteria
Serene Akkad
Albuq. School of Excellence, Albuquerque
Exploring the Antibacterial Properties of 2 Polymers and 2 Antibiotics on 2 Bacteria

Second Place
Jared D. Daniels
Roy Municipal School, Roy
Turn It Up Peroxidase

Third Place
Kaitlyn A. Barringer
Grants High School, Grants
Sweet Mutation

Honorable Mention
Katlyn M. Brantley
Grants High School, Grants
Hemo Clean or Not

Michael P. Randall
Mayfield High School, Las Cruces
Save Our Oceans, Oil Eating Bacteria (Part 2)!!

Mateo M. Vigil
Taos High School, Taos
Lyse for a Cure: pH Differential on the Extraction of Lysozyme

SR Medicine & Health Sciences
First Place
Soiba K. Mansoor
Albq. Institute for Math and Science, Albuquerque
Diabetes: A Rising Epidemic? Or Can It Be Controlled?

Second Place
Randy L. Baca
Taos High School, Taos
Kill Caps IV: Capsaicin as a Deactivator of Cancer Cell Activity

Third Place
Alegria M. Bentley
Sue Cleveland High School, Rio Rancho
The Effect of Chemicals on Daphnia Heart Rate
Honorable Mention
Kayla J. Gallegos
Grants High School, Grants
The Synergistic Effect of Antibiotics

Meagan M. Moore
Silver High School, Silver City
The Perfect Killer; Homeopathy vs. Modern Medicine

Sydney L. Schumacher
Farmington High School, Farmington
Kill the Candida: The Fungus Inside Us

SR Mathematical Sciences
First Place
Katherine L. Cordwell
Manzano High School, Albuquerque
Completing Graphs

Second Place
Aniruddha S. Nadiga
Los Alamos High School, Los Alamos
Markets, Equilibrium, and Fixed Point Theory

Third Place
Abby M. Hentges
Piedra Vista High School, Farmington
Up Up & Away

Honorable Mention
Carolyn Christensen
Alamogordo High School, Alamogordo
The Sun's Differential

Colton J. Decker
Aztec High School, Aztec
Are Random Number Generators Random Enough?

SR Environmental Sciences
First Place
Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

Second Place
Adrian A. Abeyta
Los Alamos High School, Los Alamos
Biological, Physical, & Chemical Indicators of Water Quality Before & After the Las Conchas Fire

Joe P. Abeyta
Los Alamos High School, Los Alamos
Biological, Physical, & Chemical Indicators of Water Quality Before & After the Las Conchas Fire

Third Place
LynnMarie A. Jarratt
Los Lunas High School, Los Lunas
Bubbling for a Cleaner Tomorrow

Honorable Mention
Lydia A. Byrom
Farmington High School, Farmington
The Potable Pond

Sara E. Medina
Taos High School, Taos
Chemical Conundrum: Natural & Commercial Remedies vs. Amphipods

Kristin A. Wood
Piedra Vista High School, Farmington
The Effects of Increased Co2 Concentration on Nannochloropsis Oculata Growth

SR Engineering
First Place
Josh S. Ludwigsen
Eldorado High School, Albuquerque
Passive Assisted Bending of a Pressurized Space Suit Joint

Second Place
Matthew J. Detmer
Piedra Vista High School, Farmington
The Mediator-Less Microbial Fuel Cell
Kachina M. Ganz  
Piedra Vista High School, Farmington  
The Mediator-Less Microbial Fuel Cell

Third Place  
Holly C. Erickson  
Los Alamos High School, Los Alamos  
Intelligent, Self-Assembling Systems Using Robotic Cells

Honorable Mention  
Stephen Jenkins  
Oñate High School, Las Cruces  
Radio Power

Melanie B. Schneider  
Sue Cleveland High School, Rio Rancho  
Sound As Energy? Phase II

Vlad Sevostianov  
Las Cruces High School, Las Cruces  
Effects of Decalcification on Mechanical and Electrical Properties of Bone

SR Energy & Transportation  
First Place  
Miquela T. Apodaca  
AIMES@UNM, Albuquerque  
Can I Give You A Lift? Airfoils IV

Second Place  
Anjik Ghosh  
Albuquerque Academy, Albuquerque  
Implementing Falcon Concepts to Maximize Turbine Efficiency

Honorable Mention  
Mirella Galvan-DeLaCruz  
McCurdy High School, Espanola  
Solar Panel Efficiency

Madison C. Woelfel  
McCurdy High School, Espanola  
Solar Panel Efficiency
SR  Earth & Planetary Sciences
First Place
Chase L. Kicker
Carlsbad High School, Carlsbad
Sinkholes

Second Place
Jacqueline D. Baros
St. Pius X High School, Albuquerque
Lost in the Los Conchas Fire

Third Place
Jonathan G. Cordova
Taos High School, Taos
Life Rocks: Determining Bacterial Sustainability in Geological Specimens

Honorable Mention
Gustav E. Barraza
Grants High School, Grants
Equilibrium?

Deana R. Emerson
Grants High School, Grants
Is Grants NM Glowing?

Nicole P. Mortensen
Socorro High School, Socorro
Can Hairyseed Bahia (Bahia Absinthifolia) be used as a Botanical Prospecting Indicator Plant?

SR  Computer Science
First Place
Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

Second Place
Canon T. Post
Grants High School, Grants
A Bona-Fide Comparison of Programming Languages
Third Place

William Bradford
Aztec High School, Aztec
Is Three Better Than Four?

Steven D. Lukow
Aztec High School, Aztec
Is Three Better Than Four?

SR Chemistry
First Place

Michael Dugas
Carlsbad High School, Carlsbad
Silver Superconductors Is It Possible?

Second Place

Devon M. Conradson
Los Alamos High School, Los Alamos
Materials by Design: Optimization of the Photovoltaic Properties of CZTS.

Third Place

Amelia E. Hellberg
Rio Rancho High School, Rio Rancho
Algae-Based Biofuel: Optimizing Sugar Extraction from Weeds as a Practical Solution

Kimberly Nguyen
Rio Rancho High School, Rio Rancho
Algae-Based Biofuel: Optimizing Sugar Extraction from Weeds as a Practical Solution

Honorable Mention

Darnell N. Lincoln
Piedra Vista High School, Farmington
The Cleaner Choice

SR Botany
First Place

Wayne W. Vigil, Jr.
Grants High School, Grants
Electric Algae Proliferation
Second Place
David P. Murphy
Los Alamos High School, Los Alamos
The Effects of Increased Gravity on Plant Growth

Third Place
Caitlynn E. Mayhew
Piedra Vista High School, Farmington
Lunar Roots: The Next Phase

Honorable Mention
Lilly F Chiou
Carlsbad High School, Carlsbad
The Distribution of Glucose and Invertase Enzyme Activity in Yellow Pear Tomato Plants

Annelyce K. Hicks
Grants High School, Grants
DNA The Fruity Way

Tori N. Mitchell
Roy Municipal School, Roy
Enzyme Roulette

SR  Behavioral & Social Sciences
First Place
L. Elisabeth Burton
Rio Rancho High School, Rio Rancho
A Big Fat Deal: Phase III

Second Place
Anna K. Crowder
Crowder Homeschool, Albuquerque
The Minority Report

Third Place
Noor R. Muhyi
Las Cruces High School, Las Cruces
Engaging Elementary Special Education Students in Learning Mathematical Concepts
Honorable Mention

Eliana G. Griego
McCurdy High School, Espanola
The Effects of the Power of Suggestion on Memory

Leandra Lee
Shiprock High School, Shiprock
Does Violence Improve Memory?

Curtis K. Segarra
AIMES@UNM, Albuquerque
UNM's Current Students Social, Political, & Religious Activity Levels & How Do They Correlate w/GPA

JR Zoology

First Place
Megan A. Risner
Heights Middle School, Farmington
Can Human Interaction Affect a Shelter Dogs Performance on Mental and Behavioral Tests?

Second Place
Brett T. McMahon
AIMES@UNM, Albuquerque
Does Day-Time or Night-Time Affect Holstein Cow Milk Production?

Third Place
Melanie J. Cartron
Cleveland Middle School, Albuquerque
Longevity in Animals

Honorable Mention

Cheyenne A. Keams
Tse’Bit’ai Middle School, Shiprock
Can Morgan Lake Sustain Piranha

Mikaela M. Morris
Red Mountain Middle School, Deming
Feed That Chicken

Tyra H. Nicolay
Tse’Bit’ai Middle School, Shiprock
Can Morgan Lake Sustain Piranha
Alberto Rivera
Roy Municipal School, Roy
Nematode Hunt

JR Physics & Astronomy

First Place
Coleman J. Kendrick
Los Alamos Middle School, Los Alamos
Computer Simulation of Dark Matter Effects on Galaxy Collisions

Second Place
Lydia F. Raymond
Raymond Homeschool, Edgewood
How Vocal Fold Properties Influence Voice Pitch

Third Place
Colin L. Hehlen
Chamisa Elementary School, Los Alamos
The Sound of Speed

Honorable Mention
Ryan J. Alford
Milan Elementary School, Grants
Gauss is Boss

Michael T. Hernandez
Annunciation Catholic School, Albuquerque
Liquid Lenses

Bryan A. Kendall
Albuq. School of Excellence, Albuquerque
Using Sound Recordings to Triangulate the Location of An Explosion

Andrew T. Sinclair
Annunciation Middle School, Albuquerque
Liquid Lenses

JR Microbiology
First Place
Sarah R. Dallo
Albuq. School of Excellence, Albuquerque
Bright Lights Big Sea

Second Place
Casper T. Huang
Cottonwood Valley Charter School, Socorro
Bacteria Strikes Bac!

Third Place
June H. Cooke
Los Alamos Middle School, Los Alamos
Bacterial Resistance to Antibiotics

Honorable Mention
Noah B. Manz
Heights Middle School, Farmington
Effects of Zinc on Various Bacteria

Maia C. Menefee
Los Alamos Middle School, Los Alamos
Blow: The Microbes of Music

Braman T. Merayo
Los Alamitos Middle School, Grants
Would you rather kiss your dog, cat, horse, or mom?

JR Medicine & Health Sciences
First Place
Danae M. Maes
Holy Ghost School, Albuquerque
Don't Get Too Close To Glucose, Sucrose, and Fructose!

Second Place
Kasandra D. Velarde
Roy Municipal School, Roy
Ancient to Present Waterworks
Third Place
Tyler J. Overberger
Roy Municipal School, Roy
The Milkman's Inquiry

Honorable Mention
Arianna F. Baros
St. Mary Middle School, Albuquerque
Everything's a Blur: "What Effect Does Differing"

Cam M. Kuykendall
Zia Elementary School, Clovis
Does eating food before taking pain relievers help them to work faster?

Andy A. Shen
Los Alamos Middle School, Los Alamos
The Long Term Outcome of Constraint Induced Movement Therapy

JR Mathematical Sciences
First Place
Anyia L. Rosen-Gooding
Jefferson Middle School, Albuquerque
The Math of Magnets

Second Place
Thomas "Hunter" Eaton
Los Alamos Middle School, Los Alamos
Does MoneyBall Work?

Third Place
Jake R. Boykin
Zia Middle School, Las Cruces
Analysis of NFL Scores

Honorable Mention
George Margevicius
Los Alamos Middle School, Los Alamos
Geometry and Crystal Structure: A Magnetic Approach

Hiba R. Muhyi
Sierra Middle School, Las Cruces
Animated Learning Tool-Mobile Device to Enhance Math Abilities of General & Deaf Students, Phase III
Jenna M. Romero  
St. Mary Middle School, Albuquerque  
Using Quadratic Functions to Design Two Parabolic Solar Cookers

JR  Environmental Sciences

First Place
Micaela P. Cordova  
Taos Middle School, Taos  
Grow With the Flow

Second Place
Lucia S. Costanza  
Taos Charter School, Ranchos de Taos  
Putting Out the Bacterial Fire

Olivia R. Jordy  
Taos Charter School, Ranchos de Taos  
Putting Out the Bacterial Fire

Third Place
Nico Alonzo  
Crownpoint Middle School, Crownpoint  
Wind and Solar Power Unleashed

Honorable Mention
Xavier A. Archuleta  
Tibbetts Middle School, Farmington  
H Power

Jarred Harrington  
Red Mountain Middle School, Deming  
Don't Waste Your Water, Embrace Your Water

Cristian E. Sanchez  
Red Mountain Middle School, Deming  
Don't Waste Your Water, Embrace Your Water

Grace Z. Wood  
Edgewood Middle School, Edgewood  
Eroding Roads - Phase 3

JR  Engineering
First Place
Nicholas A. Koskelo
Los Alamos Middle School, Los Alamos
The Effect of Windowmill Blade Pitch and Surface Area on Energy Production

Second Place
Jeremy B. Torres
Gallup Catholic School, Gallup
Thermodynamics in Motion

Third Place
Frances N. Valdez
Estancia Elementary School, Estancia
Saving the earth on tank at a time
Isabel A. Valdez
Estancia Elementary School, Estancia
Saving the earth on tank at a time

Honorable Mention
Alexandria E. Dennis
Mesa View Middle School, Farmington
How Much is Too Much?

Noah T. Johnson
Jefferson Middle School, Albuquerque
Silk Armor?

Sarah J. Shipley
Barranca Mesa Elementary School, Los Alamos
Epic Fail! Fractography

JR Energy & Transportation
First Place
Elise Anne C. Koskelo
Los Alamos Middle School, Los Alamos
Does Architecture Tamper with Temperature?

Second Place
Sara A. Hasan
Salam Academy, Albuquerque
Solar and Hydro Energy
Third Place

Jonah J. Ng
Sierra Middle School, Las Cruces
Thermoelectricity: Waste No Heat!

Honorable Mention

Thomas R. Browning
Albq. Institute for Math and Science, Albuquerque
Which Bilge Keel is More Efficient

Kaitlyn S. Eldred
Roosevelt Middle School, Tijeras
Exploring Enzyme Reactions for Biofuel Production

David I. Gil
Las Cruces Catholic School, Las Cruces
Exploring Efficient Solar Cookers

JR Earth & Planetary Sciences

First Place

Hayden A. Randall
Taos Middle School, Taos
The Miracle Aquifier

Second Place

Ian J. Moore
Jefferson Middle School, Albuquerque
"Applied Erosion of Clay in Simulated Stream Beds"

Third Place

Harold Gridley
St. Mary Middle School, Albuquerque
The Earthquake Resistance Theorem

Honorable Mention

Kol S. Fuierer
Cottonwood Valley Charter School, Socorro
Disappearing Snow

Wing H. Lin
St. Teresa of Avila School, Grants
Heat It Up
Selena Saunders
St. Bonaventure School, Thoreau
SOHO and the Sun

JR Computer Science
First Place
Sara S. Manshad
Sierra Middle School, Las Cruces
Multimodal Graphs for the Visually Handicapped, Phase 3

Second Place
Steven S. Chen
Los Alamos Middle School, Los Alamos
Agent Based Task Scheduling Using Heuristic Algorithms

Honorable Mention
Anthony S. Garza
Mesa Elementary School, Clovis
MP3 Squeeze: How much compression is too much?

Matthew R. Ghormley
Prince of Peace Lutheran, Cedar Crest
Sharks and Fish

Wyatt C. Kostedt
Alta Vista Middle School, Carlsbad
How to Make a Video Game, Part II

Brianna N. Tafoya
Taos Middle School, Taos
Laser Disk

JR Chemistry
First Place
Jovan Y. Zhang
Los Alamos Middle School, Los Alamos
The Chemistry Behind Glow Sticks
Second Place

John T. Spanjers
Roosevelt Middle School, Tijeras
The Effect of Temperature On The Speed of a Chemical Reaction

Third Place

Eric Nyase
Christ Lutheran School, Albuquerque
Rates of My Detergents

Honorable Mention

Nate W. Benson
Heights Middle School, Farmington
Compost or Chemical? I mean fertilizer.

Sarah S Martinez
Cleveland Middle School, Albuquerque
Can You Absorb This?

Aiswarya J. Pillai
PR Leyva Middle School, Carlsbad
Catalase Enzyme: Comparing the Effect of Temperature and Concentration . . .

JR Botany

First Place

Jaime Wood
Mesa View Middle School, Farmington
Effects of Increased CO2 Concentration on the Growth Rate of Triticum Aestivum L.

Second Place

Benjamin D. Voter
Desert Academy at Santa Fe, Santa Fe
GRAVITROPISM VS. PHOTOTROPISM

Third Place

Evan R. Schroeder
Sierra Middle School, Las Cruces
How Water Type Affects Radish Growth
Honorable Mention
Simon P. Gomez
St. Francis School, Lumberton
Alfalfa Northern New Mexico Style

Justin L. Holmes
Los Alamos Middle School, Los Alamos
The Farming Game

Madalena Roeber
Jefferson Middle School, Albuquerque
Fungi as Fertilizer?

JR Behavioral & Social Sciences
First Place
Haley M. Golden
Mesa View Middle School, Farmington
Can Responses on Surveys be Primed?

Second Place
Marwa K. Kassem
Salam Academy, Albuquerque
Which Gender Can Remember?

Third Place
Ruby A. Selvage
Piñon Elementary School, Los Alamos
Rosemary Recall

Honorable Mention
Alice R. Irvin
Hermosa Middle School, Farmington
The Effects of Peer Pressure

Jasmine J. Padilla
St. Teresa of Avila School, Grants
Stroop Effect and Vision

Liam A. Rogers
Annunciation Catholic School, Albuquerque
The Face: Recognizing Expressions
Yale Science and Engineering Association
For an outstanding 11th grade student
Certificate
Michael Dugas
Carlsbad High School, Carlsbad
Silver Superconductors Is It Possible?

Holly C. Erickson
Los Alamos High School, Los Alamos
Intelligent, Self-Assembling Systems Using Robotic Cells

Vannetta Perry Award
Presented to the project which best exemplifies the love of scientific exploration
Plaque
Tyler M. Knapton
Grants High School, Grants
Atmospheric CO2 Scrubbing: Phase 2

United States Navy and United States Marine Corps - Naval Science Awards
Senior Division - $75 award, medallion, and certificate
Nikita M. Bogdanov
Albuquerque Academy, Albuquerque
Characterizing the Effects of Asteroid Belt Perturbations on the Orbits of the Inner Planets

Forest Z. Brown
Silver High School, Silver City
Airplane Epidemiology Part Two

Holly C. Erickson
Los Alamos High School, Los Alamos
Intelligent, Self-Assembling Systems Using Robotic Cells

Anjik Ghosh
Albuquerque Academy, Albuquerque
Implementing Falcon Concepts to Maximize Turbine Efficiency

Abby M. Hentges
Piedra Vista High School, Farmington
Up Up & Away
Josh S. Ludwigsen
Eldorado High School, Albuquerque
Passive Assisted Bending of a Pressurized Space Suit Joint

Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

Kristin A. Wood
Piedra Vista High School, Farmington
The Effects of Increased Co2 Concentration on Nannochloropsis Oculata Growth

Junior Division - Medallion and certificate

Sarah R. Dallo
Albuq. School of Excellence, Albuquerque
Bright Lights Big Sea

Kaitlyn S. Eldred
Roosevelt Middle School, Tijeras
Exploring Enzyme Reactions for Biofuel Production

Bryan A. Kendall
Albuq. School of Excellence, Albuquerque
Using Sound Recordings to Triangulate the Location of An Explosion

Jon C. Revels
Grover Cleveland Middle School, Albuquerque
The Great Propeller Games

United States Metric Association
Given to the project that involves quantitative measures using the SI metric system.

Certificate

Dylan Kelly-Romero
Los Lunas High School, Los Lunas
An Analysis of Torque

David P. Murphy
Los Alamos High School, Los Alamos
The Effects of Increased Gravity on Plant Growth

United States Army
Army Silver Medallion for Science/Engineering Excellence, $100 savings bond, and
Travis N. Crockett
Sue Cleveland High School, Rio Rancho
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite

$50 savings bond and certificate
Chase L. Kicker
Carlsbad High School, Carlsbad
Sinkholes

Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

Noor R. Muhyi
Las Cruces High School, Las Cruces
Engaging Elementary Special Education Students in Learning Mathematical Concepts

Daniel S. Samora
Alamogordo High School, Alamogordo
Crushing Matters II: Utilizing Landfill Waste Materials to Minimize Vibrations in Foundations

Certificate of Achievement
Serene Akkad
Albuq. School of Excellence, Albuquerque
Exploring the Antibacterial Properties of 2 Polymers and 2 Antibiotics on 2 Bacteria

Jenene Akkad
Albuq. School of Excellence, Albuquerque
Exploring the Antibacterial Properties of 2 Polymers and 2 Antibiotics on 2 Bacteria

Forest Z. Brown
Silver High School, Silver City
Airplane Epidemiology Part Two

Tyler M. Knapton
Grants High School, Grants
Atmospheric CO2 Scrubbing: Phase 2

Danny W. Lin
Grants High School, Grants
Bloody Laser
Josh S. Ludwigsen
Eldorado High School, Albuquerque
Passive Assisted Bending of a Pressurized Space Suit Joint

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

Wayne W. Vigil, Jr.
Grants High School, Grants
Electric Algae Proliferation

Kristin A. Wood
Piedra Vista High School, Farmington
The Effects of Increased Co2 Concentration on Nannochloropsis Oculata Growth

United States Air Force
Victory Sport Bag, Sonic Sound Speaker, and Junior Tech Organizer

Travis N. Crockett
Sue Cleveland High School, Rio Rancho
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite

Josh S. Ludwigsen
Eldorado High School, Albuquerque
Passive Assisted Bending of a Pressurized Space Suit Joint

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

Wayne W. Vigil, Jr.
Grants High School, Grants
Electric Algae Proliferation

Theresa G. Johnson Award
To outstanding projects in earth and planetary science

$150 award

Travis N. Crockett
Sue Cleveland High School, Rio Rancho
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite
$100 award
Chase L. Kicker
Carlsbad High School, Carlsbad
Sinkholes

$50 award
Nikita M. Bogdanov
Albuquerque Academy, Albuquerque
Characterizing the Effects of Asteroid Belt Perturbations on the Orbits of the Inner Planets

Tau Beta Pi, the Engineering Honor
Society - New Mexico Gamma Chapter

Most Creative Project -- $25 award and t-shirt
Jose S. Lechuga
AIMES@UNM, Albuquerque
"Reach and Grab"

Most Useful Project -- $25 award and t-shirt
Hiba R. Muhyi
Sierra Middle School, Las Cruces
Animated Learning Tool-Mobile Device to Enhance Math Abilities of General & Deaf Students, Phase III

Stockholm Junior Water Prize
Given to an outstanding water-related science project
Certificate and invitation to enter the Stockholm Junior Water Prize competition
Lydia A. Byrom
Farmington High School, Farmington
The Potable Pond

Eva L. Dugas
Carlsbad High School, Carlsbad
What is in the Pecos River?

Suchin S. Patel
Grants High School, Grants
Spread No More II

Michael P. Randall
Mayfield High School, Las Cruces
Save Our Oceans, Oil Eating Bacteria (Part 2)!!
SPIE The International Society for
Optical Engineering
For a project that best demonstrates scientific research and engineering applications of optical, photonics, imaging, or related disciples.

$250 award and certificate
Travis N. Crockett
Sue Cleveland High School, Rio Rancho
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite

$150 award and certificate
Jeongmin Lee
Las Cruces High School, Las Cruces
Enhancing Raman Scattering

$100 award and certificate
Danny W. Lin
Grants High School, Grants
Bloody Laser

Socorro Lodge #9, the Grand Lodge of New Mexico, Ancient Free and Accepted Free and Accepted Masons
For projects which show originality, thoroughness, presentation, innovation, and the use of the scientific method.

$100 award
Danny W. Lin
Grants High School, Grants
Bloody Laser

Socorro Lodge #9, the Grand Lodge of New Mexico, Ancient Free and Accepted Free and Accepted Masons
For projects which show originality, thoroughness, presentation, innovation, and the use of the scientific method.

$250 award
Travis N. Crockett
Sue Cleveland High School, Rio Rancho
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite
$150 award

Mirella Galvan-DeLaCruz
McCurdy High School, Espanola
Solar Panel Efficiency

Madison C. Woelfel
McCurdy High School, Espanola
Solar Panel Efficiency

Society of Women Engineers, New Mexico Tech Student Section
Awarded to a young woman with a potential for a career in engineering

TI 89 calculator

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

Society for Range Management, New Mexico Section

$100 award

Grace Z. Wood
Edgewood Middle School, Edgewood
Eroding Roads - Phase 3

$75 award

Jacqueline D. Baros
St. Pius X High School, Albuquerque
Lost in the Los Conchas Fire

$50 award

Jordon M. Woodbury
Grants High School, Grants
Which Selected Grasses Native to Cibola County Contain the Most Protein

Society for In Vitro Biology
To the top projects in the areas of plant or animal in vitro biology or tissue culture.

Certificate

Kaitlyn A. Barringer
Grants High School, Grants
Sweet Mutation
Alegría M. Bentley  
Sue Cleveland High School, Rio Rancho  
The Effect of Chemicals on Daphnia Heart Rate

Rocky Mountain Water Environment Assoc. (RMWEA)

$200 award

Raquel R. Harrison  
Mesa View Middle School, Farmington  
Recycling Water

Michael P. Randall  
Mayfield High School, Las Cruces  
Save Our Oceans, Oil Eating Bacteria (Part 2)!!

$100 award

Joe P. Abeyta  
Los Alamos High School, Los Alamos  
Biological, Physical, & Chemical Indicators of Water Quality Before & After the Las Conchas Fire

Adrian A. Abeyta  
Los Alamos High School, Los Alamos  
Biological, Physical, & Chemical Indicators of Water Quality Before & After the Las Conchas Fire

Wayde Morgan  
Crownpoint High School, Crownpoint  
The Level of Water Lead Content in Various Housing Facilities @ Crown Point, NM

Ricoh Sustainable Development Award
To the project whose technological and scientific innovation best reflect the principles of sustainability-balancing economic development with environmental responsibility

Certificate

Nico Alonzo  
Crownpoint Middle School, Crownpoint  
Wind and Solar Power Unleashed

Daniel S. Samora  
Alamogordo High School, Alamogordo  
Crushing Matters II: Utilizing Landfill Waste Materials to Minimize Vibrations in Foundations

Rex Robinson Award
Awarded to a student who had a thorough analysis of data, which allowed an appropriate conclusion to be reached.
Plaque

Vlad Sevostianov
Las Cruces High School, Las Cruces
Effects of Decalcification on Mechanical and Electrical Properties of Bone

Professional Aerospace Contractors Association PACA) of New Mexico
For an outstanding project relevant to aerospace science and engineering.

First -- $300 award
Travis N. Crockett
Sue Cleveland High School, Rio Rancho
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite

Second -- $200 award
Soiba K. Mansoor
Albq. Institute for Math and Science, Albuquerque
Diabetes: A Rising Epidemic? Or Can It Be Controlled?

Third Place - $100 award
Jacqueline D. Baros
St. Pius X High School, Albuquerque
Lost in the Los Conchas Fire

New Mexico Tech
Awarded to all graduating seniors entered in State Science Fair

Book award for use at New Mexico Tech

Joe P. Abeyta
Los Alamos High School, Los Alamos
Biological, Physical, & Chemical Indicators of Water Quality Before & After the Las Conchas Fire

Adrian A. Abeyta
Los Alamos High School, Los Alamos
Biological, Physical, & Chemical Indicators of Water Quality Before & After the Las Conchas Fire

Randy L. Baca
Taos High School, Taos
Kill Caps IV: Capsaicin as a Deactivator of Cancer Cell Activity

Nikita M. Bogdanov
Albuquerque Academy, Albuquerque
Characterizing the Effects of Asteroid Belt Perturbations on the Orbits of the Inner Planets
Carolyn Christensen  
Alamogordo High School, Alamogordo  
The Sun's Differential

Travis N. Crockett  
Sue Cleveland High School, Rio Rancho  
Inferring Shape and/or Attitude from Non-Resolved Photometric Measurements-Geosynchronous Satellite

Matthew J. Detmer  
Piedra Vista High School, Farmington  
The Mediator-Less Microbial Fuel Cell

Dana K. Farr  
Quemado High School, Quemado  
Beauty and the Bacteria

Kayla J. Gallegos  
Grants High School, Grants  
The Synergistic Effect of Antibiotics

Mirella Galvan-DeLaCruz  
McCurdy High School, Espanola  
Solar Panel Efficiency

Kachina M. Ganz  
Piedra Vista High School, Farmington  
The Mediator-Less Microbial Fuel Cell

Christina D. Gonzales  
Taos High School, Taos  
Shattering the Silence: Harmonics vs. Crystal Lattice Integrity

Christian R. Jahrling  
Piedra Vista High School, Farmington  
Wavelengths of Lights’ Effect on Solar Vehicles’ Performance

Kristina D. Kemp  
Grants High School, Grants  
Remember that Smell?

Tyler M. Knapton  
Grants High School, Grants  
Atmospheric CO2 Scrubbing: Phase 2
Danny W. Lin
Grants High School, Grants
Bloody Laser

Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

Sara E. Medina
Taos High School, Taos
Chemical Conundrum: Natural & Commercial Remedies vs. Amphipods

Ashleigh P. Montoya
Grants High School, Grants
Cholesterol Reduction With Fruits and Vegetables

Meagan M. Moore
Silver High School, Silver City
The Perfect Killer; Homeopathy vs. Modern Medicine

Nicole P. Mortensen
Socorro High School, Socorro
Can Hairyseed Bahia (Bahia Absinthifolia) be used as a Botanical Prospecting Indicator Plant?

Noor R. Muhyi
Las Cruces High School, Las Cruces
Engaging Elementary Special Education Students in Learning Mathematical Concepts

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

Laura M. Sanchez
Grants High School, Grants
Relevant Taxonomy: Grasshoppers, Crickets, Katydid

Laurie S. Vance
Quemado High School, Quemado
Magnetize Me

Wayne W. Vigil, Jr.
Grants High School, Grants
Electric Algae Proliferation
Madison C. Woelfel  
McCurdy High School, Espanola  
Solar Panel Efficiency

New Mexico Solar Energy Association

Dr. William A. Gross Memorial Award for an junior project in the field of Renewable Energy in memory of Dr. William Gross' concern for energy sustainability.

Sara A. Hasan  
Salam Academy, Albuquerque  
Solar and Hydro Energy

First Place

Nicholas A. Koskelo  
Los Alamos Middle School, Los Alamos  
The Effect of Windmill Blade Pitch and Surface Area on Energy Production

Wayne W. Vigil, Jr.  
Grants High School, Grants  
Electric Algae Proliferation

Second Place

Christian R. Jahrling  
Piedra Vista High School, Farmington  
Wavelengths of Lights' Effect on Solar Vehicles' Performance

Jeremy B. Torres  
Gallup Catholic School, Gallup  
Thermodynamics in Motion

Third Place

Mirella Galvan-DeLaCruz  
McCurdy High School, Espanola  
Solar Panel Efficiency

David I. Gil  
Las Cruces Catholic School, Las Cruces  
Exploring Efficient Solar Cookers

Madison C. Woelfel  
McCurdy High School, Espanola  
Solar Panel Efficiency
New Mexico Optometric Association
For a project related to visual or medical ocular problems or other medical conditions that may affect the eyes

$100 cash award

Arianna F. Baros
St. Mary Middle School, Albuquerque
Everything’s a Blur: "What Effect Does Differing"

Noor R. Muhyi
Las Cruces High School, Las Cruces
Engaging Elementary Special Education Students in Learning Mathematical Concepts

$75 cash award

Michael T. Hernandez
Annunciation Catholic School, Albuquerque
Liquid Lenses

Soiba K. Mansoor
Albq. Institute for Math and Science, Albuquerque
Diabetes: A Rising Epidemic? Or Can It Be Controlled?

Andrew T. Sinclair
Annunciation Middle School, Albuquerque
Liquid Lenses

$50 cash award

Olivia Snyder
Snyder Home School, Los Alamos
How Fireworks Obtain Their Color

Jacelyn C. Sweeney
Gallup Catholic School, Gallup
Optimizing Sun Protection and Safety

Honorable Mention

Eliana G. Griego
McCurdy High School, Espanola
The Effects of the Power of Suggestion on Memory

Jasmine J. Padilla
St. Teresa of Avila School, Grants
Stroop Effect and Vision
Yuji Shimada
Roy Municipal School, Roy
A "Carbo" A Day May Not Keep Doctor Away

Emily C. Sienkowski
Holy Ghost School, Albuquerque
In The Eye of the Beholder and the Mind of the Beheld

New Mexico Network for Women in Science and Engineering
For young women to encourage them to consider a career in science and engineering

Tote Bag and $50 award

Miquela T. Apodaca
AIMES@UNM, Albuquerque
Can I Give You A Lift? Airfoils IV

Jacqueline D. Baros
St. Pius X High School, Albuquerque
Lost in the Los Conchas Fire

L. Elisabeth Burton
Rio Rancho High School, Rio Rancho
A Big Fat Deal: Phase III

Rosemary E Elliott Smith
Monte Del Sol Charter School, Santa Fe
Things Fall Apart: Entropy in the Macroscopic World

Holly C. Erickson
Los Alamos High School, Los Alamos
Intelligent, Self-Assembling Systems Using Robotic Cells

LynnMarie A. Jarratt
Los Lunas High School, Los Lunas
Bubbling for a Cleaner Tomorrow

Elise Anne C. Koskelo
Los Alamos Middle School, Los Alamos
Does Architecture Tamper with Temperature?

Soiba K. Mansoor
Albq. Institute for Math and Science, Albuquerque
Diabetes: A Rising Epidemic? Or Can It Be Controlled?
Holly L. Perez
Vaughn Elementary School, Vaughn
Wonder Wool

Anya L. Rosen-Gooding
Jefferson Middle School, Albuquerque
The Math of Magnets

Tote Bag

Micaiela P. Cordova
Taos Middle School, Taos
Grow With the Flow

Haley M. Golden
Mesa View Middle School, Farmington
Can Responses on Surveys be Primed?

Abby M. Hentges
Piedra Vista High School, Farmington
Up Up & Away

Aurelia R. Jones
Loving Middle School, Loving
Tsunami Stopper

Caitlynn E. Mayhew
Piedra Vista High School, Farmington
Lunar Roots: The Next Phase

Hiba R. Muhyi
Sierra Middle School, Las Cruces
Animated Learning Tool-Mobile Device to Enhance Math Abilities of General & Deaf Students, Phase III

Valerie Perea
St. Pius X High School, Albuquerque
Putting The Pieces Together: Enzymes and Biofuel Synthesis.

Megan A. Risner
Heights Middle School, Farmington
Can Human Interaction Affect a Shelter Dogs Performance on Mental and Behavioral Tests?

Madalena Roeber
Jefferson Middle School, Albuquerque
Fungi as Fertilizer?
Grace Z. Wood
Edgewood Middle School, Edgewood
Eroding Roads - Phase 3

Jaime Wood
Mesa View Middle School, Farmington
Effects of Increased CO2 Concentration on the Growth Rate of Triticum Aestivum L.

New Mexico Museum of Natural History and Science

$100 cash award, museum certificate, and museum t-shirt

Sara A. Hasan
Salam Academy, Albuquerque
Solar and Hydro Energy

LynnMarie A. Jarratt
Los Lunas High School, Los Lunas
Bubbling for a Cleaner Tomorrow

New Mexico Garden Clubs, Inc.
First Place -- $100 savings bond

Catherine A. Chavez
Los Lunas High School, Los Lunas
Re-Active Carbon: The Foundation of a Healthier Agroeco System

Madalena Roeber
Jefferson Middle School, Albuquerque
Fungi as Fertilizer?

Second Place -- $75 savings bond

Wayne W. Vigil, Jr.
Grants High School, Grants
Electric Algae Proliferation

Benjamin D. Voter
Desert Academy at Santa Fe, Santa Fe
GRAVITROPISM VS. PHOTOTROPISM

Third Place -- $50 Savings Bond

David P. Murphy
Los Alamos High School, Los Alamos
The Effects of Increased Gravity on Plant Growth
Evan R. Schroeder
Sierra Middle School, Las Cruces
How Water Type Affects Radish Growth

New Mexico Biotechnology & Biomedical Association (NMBio)

All expenses paid trip to US National BioGENEius Challenge for the student and teacher

LynnMarie A. Jarratt
Los Lunas High School, Los Lunas
Bubbling for a Cleaner Tomorrow

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

1st Alternate

Randy L. Baca
Taos High School, Taos
Kill Caps IV: Capsaicin as a Deactivator of Cancer Cell Activity

2nd Alternate

Forest Z. Brown
Silver High School, Silver City
Airplane Epidemiology Part Two

New Mexicans for Science and Reason

$200 award

Mirella Galvan-DeLaCruz
McCurdy High School, Espanola
Solar Panel Efficiency

Madison C. Woelfel
McCurdy High School, Espanola
Solar Panel Efficiency

National Society of Professional Engineers

Given to an outstanding project that demonstrates applies engineering principles
Certificate of Merit and pin

Holly C. Erickson
Los Alamos High School, Los Alamos
Intelligent, Self-Assembling Systems Using Robotic Cells

Sara S. Manshad
Sierra Middle School, Las Cruces
Multimodal Graphs for the Visually Handicapped, Phase 3

National Oceanic and Atmospheric Administration
For research that seeks to understand and predict changes in climate, weather, ocean, or coasts.

Certificate

Kaitlyn S. Eldred
Roosevelt Middle School, Tijeras
Exploring Enzyme Reactions for Biofuel Production

Tyler M. Knapton
Grants High School, Grants
Atmospheric CO2 Scrubbing: Phase 2

Microsoft Student Partners
Give to a project with applicability to solving a real-world problem, especially through the use of a Microsoft technology

XBOX 360, XBOX Live (12 months), Samsun Focus Flash Windows 7 Phone, MS software

Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

Mau/Kirschbaum Award
In memory of Dr. Walter Kirschbaum, M.D., and Dr. Brunhilde Kirschbaum, M.D.

$50 cash award

Curtis K. Segarra
AIMES@UNM, Albuquerque
UNM's Current Students Social, Political, & Religious Activity Levels & How Do They Correlate w/GPA

Laurie S. Vance
Quemado High School, Quemado
Magnetize Me
Materials Achievement Award - NMT
Materials & Metallurgical Engineering
Dept
For projects which have an impact in materials science
$100 award + t-shirt

Noah T. Johnson
Jefferson Middle School, Albuquerque
Silk Armor?

Sarah S Martinez
Cleveland Middle School, Albuquerque
Can You Absorb This?

Sarah J. Shipley
Barranca Mesa Elementary School, Los Alamos
Epic Fail! Fractography

Lovelace Respiratory Research
$1000 scholarship to college of the student's choice
Randy L. Baca
Taos High School, Taos
Kill Caps IV: Capsaicin as a Deactivator of Cancer Cell Activity

Klipsch School of Electrical and
Computer Engineering (NMSU)
$1000 Scholarship to the Klipsch School of Electrical and Computer Engineering at NMSU
Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

John Harty Award
For the project which makes the best use of readily available materials
Plaque
Josh S. Ludwigsen
Eldorado High School, Albuquerque
Passive Assisted Bending of a Pressurized Space Suit Joint

Intel Excellence in Computer Science
Award
To encourage increased participations in Computer Science
$200 award plus a certificate
Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

iD Tech Camps-Summer Tech Fun at UNM
Winners will receive a voucher for a week-long summer technology program at UNM
Camp Voucher
Joseph M. Malone
Malone Home School, Edgewood
Hands-Free Mouse Control Using Accelerometer Tilt

Sara S. Manshad
Sierra Middle School, Las Cruces
Multimodal Graphs for the Visually Handicapped, Phase 3

Excellence in Geoscience
For a geoscience project that demonstrates scholarship, creativity, and thoroughness. Sponsored by the NM Bureau of Geology, NM Geological Society, and NMT Dept of Earth & Environmental Science
Senior Division -- Cash award, subscription to New Mexico Geology, and publication of the student's abstract in New Mexico Geology
Chase L. Kicker
Carlsbad High School, Carlsbad
Sinkholes

Junior Division -- Cash award, subscription to New Mexico Geology, and publication of the student's abstract in New Mexico Geology
Ian J. Moore
Jefferson Middle School, Albuquerque
"Applied Erosion of Clay in Simulated Stream Beds"

Engineers Without Borders - NMT
To the project most applicable to humanitarian engineering
T-shirt
LynnMarie A. Jarratt
Los Lunas High School, Los Lunas
Bubbling for a Cleaner Tomorrow

David K. Shortess Award
Presented to the project exhibiting outstanding quality in logic and clarity of presentation
Plaque

Mirella Galvan-DeLaCruz
McCurdy High School, Espanola
Solar Panel Efficiency

Madison C. Woelfel
McCurdy High School, Espanola
Solar Panel Efficiency

Coalition for Excellence in Science Education
Project which best uses the scientific method to solve or help solve a real-world problem
$200 cash award

Haley M. Golden
Mesa View Middle School, Farmington
Can Responses on Surveys be Primed?

Clay T. Smith Award
Presented to the project with the greatest potential for immediate practical application

Plaque

Daniel S. Samora
Alamogordo High School, Alamogordo
Crushing Matters II: Utilizing Landfill Waste Materials to Minimize Vibrations in Foundations

Broadcom MASTERS Program Manager
Outstanding projects are eligible to compete for an all-expense paid trip to Washington, DC, to participate in the Broadcom MASTERS Finals

Nominee Packet

Nico Alonzo
Crownpoint Middle School, Crownpoint
Wind and Solar Power Unleashed

Steven S. Chen
Los Alamos Middle School, Los Alamos
Agent Based Task Scheduling Using Heuristic Algorithms

Micaela P. Cordova
Taos Middle School, Taos
Grow With the Flow
Sarah R. Dallo  
Albuq. School of Excellence, Albuquerque  
Bright Lights Big Sea

Kaitlyn S. Eldred  
Roosevelt Middle School, Tijeras  
Exploring Enzyme Reactions for Biofuel Production

Haley M. Golden  
Mesa View Middle School, Farmington  
Can Responses on Surveys be Primed?

Coleman J. Kendrick  
Los Alamos Middle School, Los Alamos  
Computer Simulation of Dark Matter Effects on Galaxy Collisions

Nicholas A. Koskelo  
Los Alamos Middle School, Los Alamos  
The Effect of Windowmill Blade Pitch and Surface Area on Energy Production

Elise Anne C. Koskelo  
Los Alamos Middle School, Los Alamos  
Does Architecture Tamper with Temperature?

Wing H. Lin  
St. Teresa of Avila School, Grants  
Heat It Up

Danae M. Maes  
Holy Ghost School, Albuquerque  
Don't Get Too Close To Glucose, Sucrose, and Fructose!

Sara S. Manshad  
Sierra Middle School, Las Cruces  
Multimodal Graphs for the Visually Handicapped, Phase 3

Ian J. Moore  
Jefferson Middle School, Albuquerque  
"Applied Erosion of Clay in Simulated Stream Beds"

Hayden A. Randall  
Taos Middle School, Taos  
The Miracle Aquifier
Megan A. Risner
Heights Middle School, Farmington
Can Human Interaction Affect a Shelter Dogs Performance on Mental and Behavioral Tests?

Madalena Roeber
Jefferson Middle School, Albuquerque
Fungi as Fertilizer?

Anya L. Rosen-Gooding
Jefferson Middle School, Albuquerque
The Math of Magnets

Ruby A. Selvage
Piñon Elementary School, Los Alamos
Rosemary Recall

Jaime Wood
Mesa View Middle School, Farmington
Effects of Increased CO2 Concentration on the Growth Rate of Triticum Aestivum L.

Jovan Y. Zhang
Los Alamos Middle School, Los Alamos
The Chemistry Behind Glow Sticks

Brittni Romero Award
To encourage young women to pursue careers in science and engineering
$150 cash award

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

$50 cash award

Cassidy L. Schwartz
Mesa Elementary School, Clovis
Hey Sparky!

AVS Science and Technology Society,
New Mexico Chapter

Senior First -- $300 cash award plus award for teacher

Jeongmin Lee
Las Cruces High School, Las Cruces
Enhancing Raman Scattering
Senior Second -- $200 cash award plus award for teacher
Hans V. Hershberger
Hershberger Homeschool, Tijeras
Maglev: Trains of the Future

Junior First -- $200 cash award plus award for teacher
John T. Spanjers
Roosevelt Middle School, Tijeras
The Effect of Temperature On The Speed of a Chemical Reaction

Junior Second -- $150 cash award plus award for teacher
Jeremy B. Torres
Gallup Catholic School, Gallup
Thermodynamics in Motion

Association for Women Geoscientists
For high standards of innovativeness and scientific excellence in the geosciences
Certificate
Sarah R. Dallo
Albuq. School of Excellence, Albuquerque
Bright Lights Big Sea

Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

ASM Materials Education Foundation
For the best materials engineering project
Certificate
Michael  Dugas
Carlsbad High School, Carlsbad
Silver Superconductors Is It Possible?

Ian J. Moore
Jefferson Middle School, Albuquerque
"Applied Erosion of Clay in Simulated Stream Beds"

Ashmore Award
In memory of the Rev. and Mrs. Charles M. Ashmore
$50 cash award

Eliana G. Griego
McCurdy High School, Espanola
The Effects of the Power of Suggestion on Memory

Leandra Lee
Shiprock High School, Shiprock
Does Violence Improve Memory?

American Statistical Association,
Albuquerque Chapter
For the best use of statistics
First - $75 cash award plus certificate

Anya L. Rosen-Gooding
Jefferson Middle School, Albuquerque
The Math of Magnets

Second - $50 cash award plus certificate

Casper T. Huang
Cottonwood Valley Charter School, Socorro
Bacteria Strikes Bac!

Third - $25 cash award plus certificate

Kristin A. Wood
Piedra Vista High School, Farmington
The Effects of Increased Co2 Concentration on Nannochloropsis Oculata Growth

Honorable Mention

David P. Murphy
Los Alamos High School, Los Alamos
The Effects of Increased Gravity on Plant Growth

Megan A. Risner
Heights Middle School, Farmington
Can Human Interaction Affect a Shelter Dogs Performance on Mental and Behavioral Tests?

American Psychological Assoc. &
Teachers of Psychology in Secondary Schools
For a project which demonstrates outstanding research in psychology
Certificate

Leandra Lee
Shiprock High School, Shiprock
Does Violence Improve Memory?

Ruby A. Selvage
Piñon Elementary School, Los Alamos
Rosemary Recall

American Meteorological Society
First Place - Best Meterological Award - 4GB USB drive
Sonja Thompson
Gallup Catholic School, Gallup
Flash Floods

Certificate

Tyler M. Knapton
Grants High School, Grants
Atmospheric CO2 Scrubbing: Phase 2

Suchin S. Patel
Grants High School, Grants
Spread No More II

Michael P. Randall
Mayfield High School, Las Cruces
Save Our Oceans, Oil Eating Bacteria (Part 2)!!

Kristin A. Wood
Piedra Vista High School, Farmington
The Effects of Increased Co2 Concentration on Nannochloropsis Oculata Growth

American Chemical Society, Central New Mexico Section
Awarded to the project that best demonstrates a thorough and logical approach to the investigation and observation of a chemical phenomena or property using the principles of the scientific method

$200 cash award plus a cash award to the teacher

Amelia E. Hellberg
Rio Rancho High School, Rio Rancho
Algae-Based Biofuel: Optimizing Sugar Extraction from Weeds as a Practical Solution
Kimberly Nguyen  
Rio Rancho High School, Rio Rancho  
Algae-Based Biofuel: Optimizing Sugar Extraction from Weeds as a Practical Solution

Eric Nyase  
Christ Lutheran School, Albuquerque  
Rates of My Detergents

Jovan Y. Zhang  
Los Alamos Middle School, Los Alamos  
The Chemistry Behind Glow Sticks

Senior Division Sponsor of the Year  
Plaque $50 award donated by Mitch and Nancy Bilderbeck

Gail Silva  
Piedra Vista High School, Farmington  
Senior Division Sponsor of the Year

Junior Division Sponsor of the Year  
Plaque plus $50 award donated by Mitch and Nancy Bilderbeck

Loretta Overberger  
Roy Municipal School, Roy  
Junior Sponsor of the Year

Research Paper Competition, sponsored by the New Mexico Academy of Science, INTEL, Sandia National Labs/Lockheed Martin

American Vacuum Society, Senior Division, Second Place - $125 award

Serina L. Pack  
Cliff High School, Cliff  
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sties

American Vacuum Society, Senior Division, First Place - $150 award

Nikita M. Bogdanov  
Albuquerque Academy, Albuquerque  
Characterizing the Effects of Asteriod Belt Perturbations on the Orbits of the Inner Planets
Senior Division, Third Place - $50 award
Elias Clark
Cibola High School, Albuquerque
Senior Division Paper Competition

Senior Division, Second Place - $100 award
Serina L. Pack
Cliff High School, Cliff
What Will Grow II Mining Reclamation-Establishing Plant Life On Abandoned Mine Sites

Senior Division, First Place - $200 award
Nikita M. Bogdanov
Albuquerque Academy, Albuquerque
Characterizing the Effects of Asteroid Belt Perturbations on the Orbits of the Inner Planets

Ruby A. Selvage
Piñon Elementary School, Los Alamos
Rosemary Recall

American Vacuum Society, Junior Division, First Place - $125 award
Megan A. Risner
Heights Middle School, Farmington
Can Human Interaction Affect a Shelter Dogs Performance on Mental and Behavioral Tests?

Junior Division Honorable Mention
Elise Anne C. Koskelo
Los Alamos Middle School, Los Alamos
Does Architecture Tamper with Temperature?

Edward Park
Sierra Middle School, Las Cruces
Junior Division Paper Competition

Ruby A. Selvage
Piñon Elementary School, Los Alamos
Rosemary Recall

Junior Division, Second Place - $100 award
Megan A. Risner
Heights Middle School, Farmington
Can Human Interaction Affect a Shelter Dogs Performance on Mental and Behavioral Tests?
Junior Division, First Place - $200 award

Lydia F. Raymond
Raymond Homeschool, Edgewood
How Vocal Fold Properties Influence Voice Pitch