

Rose Baca-Rivet Award

Junior or Senior Division

Recognition

Plaque

Sydney E Gilbert

Piedra Vista High School

Teacher/Sponsor: Jennifer Riddle

Title: Baroque'n Brain: A Glimpse Into Baroque Musics Neurological Support in Education'

Klipsch School of Electrical & Computer Engineering, NMSU

up to 12 Scholarship Certificates for students if they enroll in the BSEE program

Up to 6 \$50 gift cards

Junior or Senior Division

Recognition

up to 12 Scholarship Certificates for students if they enroll in the BSEE program

Up to 6 \$50 gift cards

Simon G Armijo

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton

Title: Optical Navigation System For All-Terrain Robot'

Samuel R Crooks

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Implementing an Artificial Neural Network to Recognize Handwritten Digits'

Marc M Mirabal

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: EMG Controlled Bionic Hand'

Jen Marie B Phifer

Los Lunas High School

Teacher/Sponsor: Lynne A Mozer

Title: What's Missing?'

Devin P Munson

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: No Child Left Behind'

Jordan S Sanders

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Artificial Robotic Movement: A wearable device '

Xander O Jones

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Graphene Supercapacitors: Energy of the Future'

Charles S Strauss

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Teaching an Artificial Intelligence with an Artificial Intelligence'

T# 1 Erik R Boldt

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: Raspberry Pi Cluster Computer 2.0'

T# 2 Victor M Ramirez

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: Raspberry Pi Cluster Computer 2.0'

Elijah - Pelofske

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: RSA Based Primality Test'

Scientific Paper Competition-NMJAS

To showcase student research, participation in science fairs, and an annual written and oral technical paper competition.

Senior Division

Third Place

NM Academy of Science, Senior Div, 3rd Place, \$100 Cash Award

**NMAS Scientific Paper Competition: Karin R
Ebey**

Modeling American Alligator Population

Second Place

NM Academy of Science, Senior Div, 2nd Place, \$150 Cash Award

**NMAS Scientific Paper Competition: AnaMaria
Perez**

Analyzing Patterns Within an Original Egyptian Fraction Decomposition Algorithm

First Place

NM Academy of Science, Senior Div, 1st Place, \$250 Cash Award

**NMAS Scientific Paper Competition: Lillian K
Petersen**

Presentation on Predicting food shortages in africa from satellite imagery

Scientific Paper Competition, AVS Science & Technology Awards**Scientific Paper Competition**

Senior Division

Second Place

\$175 Cash Award

**AVS Science and Tech Paper Competition:
Heather D Wheeler**

Heather's presentation in the AVS Science and Technology Competition

First Place

\$200 Cash Award

**AVS Science and Tech Paper Competition:
Lillian K Petersen**

Lillian's presentation in the AVS science and Technology Competition

Teacher Award

\$200 each of 1st place winner

**AVS Science and Tech Paper Competition:
Mark R Petersen**

Sponsor for Lillian Petersen

Teacher Award

\$175 to teacher of first place winner

**AVS Science and Tech Paper Competition:
Christie Vliss**

Sponsor for Heather Wheeler

Albuquerque Chapter of the American Statistical Association

Criteria: Best use of statistics in science fair project

Senior Division

Third Place

Cash Award

Paris C Reuel

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez

Title: Caffeine: The Real Killer?'

First Place

Cash Award

Team Split

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Predicting Food Shortages in Africa from Satellite Imagery'

American Chemical Society - Central New Mexico Local Section

To 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.

Senior Division

Recognition

Cash award

Miauxochitl K Haskie

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Sunscreen: Natural Clay vs. Commercially Made'

American Meteorological Society

Outstanding achievement for creative scientific endeavor in the areas of atmospheric and related oceanic and hydrologic sciences.

Senior Division

Recognition

Certificate

Samantha A Multari

St. Pius X High School

Teacher/Sponsor: Rebecca Giron

Title: Can Seaweed Save the Coral? Part V'

Ryan S Helmer

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher

Title: Solar Water Farming: Using Desiccants to Explore New Water Opportunities in Arid Climates'

American Nuclear Society, Trinity Section

For best project related to nuclear science or nuclear engineering.

Senior Division

Recognition

Cash Award

Zachary E Goodrich

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Asteroid Repulsion'

American Psychological Association

Outstanding research in psychological science under the category of behavioral and social sciences or any category related to psychology.

Junior or Senior Division**Recognition**

Certificate

Rakin R. Faruk

AIMS@UNM

Teacher/Sponsor: Reginald L Tyler

Title: Do Stress Levels Differentiate Based on an Individual's Brain Dominant Hemisphere?'

New Mexico American Vacuum Society

For the most creative chemistry or physics entry that successfully followed the scientific method.

Senior Division**Second Place**

Cash prize

Teacher will also receive \$200

Isabela G Cenicerros

Bernalillo High School

Teacher/Sponsor: Ivy Alefante

Title: Effects of Geometry and Voltage on Ion Engine Design'

First Place

Cash Prize

Teacher will also receive \$300

Nydia E. Sanchez

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Scientific Art'

Rev. Charles and Mary Ashmore Memorial Awards

In memory of Rev. Charles and Mary Ashmore Memorial Awards

Junior or Senior Division

Recognition

\$25 cash award

Jade E Cates

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher

Title: Can I Train My Brain To Be Happier?'

Recognition

\$25 Cash Award

Desiree R Molina

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Got Stress?'

Stormy M Valenzuela

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton

Title: Effects of ADHD'

Alyssa E Marquez

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Students Cheating'

ASM International - Los Alamos Chapter

For Excellence in Materials Science-projects that emphasize the science of materials (metallurgy, ceramics, polymers, etc) and how the materials properties, processing or structure influences performance.

Junior or Senior Division

Second Place

\$150 Cash Prize

Skyler S Hughes

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: Analysis of Spidron- Fractal Based Structures in Force Absorption Applications'

First Place

\$200 Cash Award

Xander O Jones

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Graphene Supercapacitors: Energy of the Future'

Association for Women Geoscientists

Projects created by female students who exemplify high standards of innovativeness and scientific excellence in the geosciences.

Junior or Senior Division

Recognition

Certificate

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Predicting Food Shortages in Africa from Satellite Imagery'

ASU Walton Sustainability Solutions Initiatives

Recognized for a project that conveys intent to solve a complex problem that involves social justice, environmental and economic prosperity.

Senior Division

Recognition

****TEAM: MEMBERS SPLIT** Certificate and nomination to enter for the Grand Prize of a trip to Arizona for the 2017 Sustainability Solutions Festival.5

T# 1 Tessa K Holderman

Rio Rancho High School

Teacher/Sponsor: melissa marks

Title: Eco-friendly Ant repellents '

T# 2 Mariana Palero Estrada

Rio Rancho High School

Teacher/Sponsor: melissa marks

Title: Eco-friendly Ant repellents '

Recognition

Certificate and nomination to enter for the Grand Prize \$500.0.

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Predicting Food Shortages in Africa from Satellite Imagery'

Ball Aerospace and Technologies Corp.

1st, 2nd and 3rd place awards will be given in the Junior and Senior categories for Experiments, mathematical models or engineering designs related to application of light or heat. Fields of interest: Physics, Chemistry, Mathematics, and Engineering.

Senior Division

Third Place

\$100 Cash Award

Brittany C Cartwright

Alta Vista Early College HS

Teacher/Sponsor: alicia stevens

Title: Colored Light On Plant Growth'

Second Place

**TEAM: MEMBERS SPLIT \$150 Cash Award

T# 1 Alandra C Barreda

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

Title: Effects of Lighting Conditions on Plant Pigment part. 2'

T# 2 Chloe I Fabbri

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

Title: Effects of Lighting Conditions on Plant Pigment part. 2'

First Place

\$250 Cash Award

Zachary E Goodrich

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Asteroid Repulsion'

Brittini Romero Award

Project with research focused in water remediation and/or energy.

Senior Division

Recognition

\$100.0

Riley E Jakino

Piedra Vista High School

Teacher/Sponsor: Jennifer Riddle

Title: Water Purification Using Plants'

Clay T. Smith Award

Project with the greatest potential for immediate practical application.

Recognition

Plaque

Mustafa R Muhyi

Las Cruces High School

Teacher/Sponsor: James McDowell

Title: An Interactive Design and Emotion Assessment of an Upper Limb Therapy with Tangible Robotic Companio'

Climate Change New Mexico

Presented to the student whose project demonstrated the greatest insight into climate change using the scientific method.

Senior Division**Recognition**

Cash prize and Certificate
Team Split

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Predicting Food Shortages in Africa from Satellite Imagery'

Coalition for Excellence in Science and Math Education (CESE)

Based on which project best uses the scientific method to solve, or help solve a real-world problem that has direct application to improving the world condition.

Junior or Senior Division**Recognition**

\$200 Check
Team Split if necessary

Ryan S Helmer

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher

Title: Solar Water Farming: Using Desiccants to Explore New Water Opportunities in Arid Climates'

"Excellence in Geoscience" Award

Geoscience awards will be based on research projects that demonstrate scholarship, creativity, and thoroughness within the broad area of geoscience.

Senior Division**Recognition**

Cash Award and Certificate

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Predicting Food Shortages in Africa from Satellite Imagery'

Dr. William A. Gross Memorial Award

Project that best embodies the objective of "Helping to Make the World a Better Place."

Junior or Senior Division**Recognition**

\$100 Cash Award

Ryan S Helmer

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher

Title: Solar Water Farming: Using Desiccants to Explore New Water Opportunities in Arid Climates'

Intel Excellence in Computer Science Award

Awarded to the top two projects in the Senior Computer Science category.

Senior Division

Recognition

\$200 Cash Award and Certificate

Charles S Strauss

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Teaching an Artificial Intelligence with an Artificial Intelligence'

Samuel R Crooks

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Implementing an Artificial Neural Network to Recognize Handwritten Digits'

Theresa G. Johnson Memorial Award

In memory of Theresa G. Johnson, teacher and supporter of NMSEF.

Junior or Senior Division

Recognition

\$100 Cash Award

Zachary E Goodrich

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Asteroid Repulsion'

Dr. Walter Kirschbaum & Dr. Brunhilde Mau Kirschbaum Memorial Award

In memory of Walter Kirschbaum, MD & Brunhilde Mau Kirschbaum, MD

Senior Division

Recognition

\$25 cash award

Sydney E Gilbert

Piedra Vista High School

Teacher/Sponsor: Jennifer Riddle

Title: Baroque'n Brain: A Glimpse Into Baroque Musics Neurological Support in Education'

Isabella M Harmon

San Juan College High School

Teacher/Sponsor: Geizi Dejka

Title: The Effect of Music on the Brain During Testing'

Recognition

\$25 Cash Award

Lillie D Davis

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher

Title: Behavioral Reinforcement Effects on Scholarly Behavior'

Rakin R. Faruk

AIMS@UNM

Teacher/Sponsor: Reginald L Tyler

Title: Do Stress Levels Differentiate Based on an Individual's Brain Dominant Hemisphere?'

Mu Alpha Theta Award

To a project that demonstrtaes the most challenging, original, thorough, and creative investigation of a problem involving mathematics, but not necessarily a project in the Mathematics category.

Senior Division

Recognition

Certificate

AnaMaria Perez

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler

Title: Analyzing Patterns with in an Original Egyptian Fraction Decomposition Algorithm'

Elijah - Pelofske

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: RSA Based Primality Test'

Naval Science Award Program

Recognition of individual project at the NM Science and Engineering Fair for production and presentation of quality science and engineering projects.

Senior Division**Recognition**

Certificate of Achievement; Medallion; and \$75 gift card.

Skyler S Hughes

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: Analysis of Spidron- Fractal Based Structures in Force Absorption Applications'

Marc M Mirabal

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: EMG Controlled Bionic Hand'

Zachary E Goodrich

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Asteroid Repulsion'

New Mexico Biotechnology & Biomedical Association (NMBio)

NM BioGENEius challenge. The best SR Division Biotechnology or biomedical related project will be the New Mexico BioGeneius Challenge winner and will advance to the national competition held inconjunction with the BIO trade convention in Boston, MA.

Senior Division**First Place**

All expense paid trip to Boston to compete in the national competition June 4-7, 2018

Marc M Mirabal

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: EMG Controlled Bionic Hand'

New Mexico Network for Women in Science and Engineering

Given to projects which best match NMNWSE's goal to encourage young women to develop their potential as future leaders in scientific and technical fields.

Junior or Senior Division**Recognition**

\$50 Cash Prize, certificate and tote bag with career materials.

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Predicting Food Shortages in Africa from Satellite Imagery'

Makayla R Gates

Valencia High School

Teacher/Sponsor: Holly Ice-Gates

Title: Mimosa pudica as Indicator for Comparative Adverse Effects of Topical Anesthetics'

Isabela G Cenicerros

Bernalillo High School

Teacher/Sponsor: Ivy Alefante

Title: Effects of Geometry and Voltage on Ion Engine Design'

Riley J Clavel

Roy Municipal School

Teacher/Sponsor: Loretta m Overberger

Title: Who's the Boss of the Moss?'

T# 1 Angelina M Lopez

Rio Rancho High School

Teacher/Sponsor: scotia kurowski

Title: The Effects of Amino Acids on Stem Cell Growth'

T# 2 Breana c Sotelo

Rio Rancho High School

Teacher/Sponsor: scotia kurowski

Title: The Effects of Amino Acids on Stem Cell Growth'

Junior or Senior Division

Honorable Mention

Certificate and tote bag with career materials (\$25 value)

Samantha A Multari

St. Pius X High School

Teacher/Sponsor: Rebecca Giron

Title: Can Seaweed Save the Coral? Part V'

Kalieyah Z Boyd

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Do Magnets Affect Regeneration In Earthworm?'

Lien T Tang

Manzano High School

Teacher/Sponsor: Achraf Nouredine

Title: Optimization of Lipid-Coated Mesoporous Silica Nanoparticles for Cancer Immunotherapy'

Angelina J Espindola

East Mountain High School

Teacher/Sponsor: Teresa M Espindola

Title: Do Vitamins Enhance Herbs?'

New Mexico Optometric Association

Projects related to visual, ocular (eyes), optics, color vision, or medical ocular problems.

Senior Division

Third Place

Cash Prize and Certificate

Lien T Tang

Manzano High School

Teacher/Sponsor: Achraf Nouredine

Title: Optimization of Lipid-Coated Mesoporous Silica Nanoparticles for Cancer Immunotherapy'

Second Place

Cash Prize and Certificate

Sydney M Anderson

Piedra Vista High School

Teacher/Sponsor: Jennifer Riddle

Title: How Exercise Impacts Blood Glucose'

First Place

Cash Prize and Calculator

Kaylin N McLiverty

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Diabetes Biomarker Study on the Navajo Reservation'

New Mexico Solar Energy Association

Outstanding projects in solar energy, renewable energy or sustainable living.

Senior Division

Second Place

\$50 Cash Award

Xander O Jones

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Graphene Supercapacitors: Energy of the Future'

First Place

\$75 Cash Award

Ryan S Helmer

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher

Title: Solar Water Farming: Using Desiccants to Explore New Water Opportunities in Arid Climates'

Professional Aerospace Contractors Association

For an outstanding project relevant to aerospace science and engineering.

Senior Division

First Place

Cash Award

Isabela G Cenicerros

Bernalillo High School

Teacher/Sponsor: Ivy Alefante

Title: Effects of Geometry and Voltage on Ion Engine Design'

First Place

Cash Award

Lien T Tang

Manzano High School

Teacher/Sponsor: Achraf Nouredine

Title: Optimization of Lipid-Coated Mesoporous Silica Nanoparticles for Cancer Immunotherapy'

First Place

Cash Award

Marc M Mirabal

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: EMG Controlled Bionic Hand'

RealD Perfecting the Visual Image Award

There will be one award for each division (jr & Sr) Awards go to the projects the RealD judge represent the most interesting optical, human visual, or technology for entertainment project.

Senior Division

Recognition

100\$ cash

Jordan S Sanders

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Artificial Robotic Movement: A wearable device '

Senior Division

Honorable Mention

**TEAM: MEMBERS SPLIT Gift card

T# 1 Kief Gonzales

Silver High School

Teacher/Sponsor: todd pugmire

Title: Popcorn'

T# 2 Julian m saucedo

Silver High School

Teacher/Sponsor: todd pugmire

Title: Popcorn'

Rex Robinson Award

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

Junior or Senior Division

Recognition

Plaque

AnaMaria Perez

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler

Title: Analyzing Patterns with in an Original Egyptian Fraction Decomposition Algorithm'

Ricoh Sustainable Development Award

Presented to the student whose research has demonstrated the Principles and Technical Innovations that offer the greatest potential for Sustainable Development.

Junior or Senior Division

Recognition

Certificate

Stephen N Sanders

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: The Mean Green Polyethylene Machine'

Society for In Vitro Biology Award

Awarded to the most outstanding achievement for 11th grade students exhibiting in the areas of plant or animal in vitro biology or tissue culture.

Senior Division

Recognition

Certificate

Kallie L Williams

Grants High School

Title: Yeast Get Going!

Teacher/Sponsor: Shelby Alexander

Alissa M Puderbaugh

Grants High School

Title: Dialing Diseases - How Safe is your Phone?'

Teacher/Sponsor: Shelby Alexander

Stockholm Junior Water Prize Water Environment Federation

Recognition of outstanding water-related research in the Senior Division.

Senior Division

Recognition

Certificate-Nomination

Omar J Ordoñez

Los Lunas High School

Title: A Salt Solution '

Teacher/Sponsor: Lynne A Mozer

T# 1 Xavier McTeigue

Los Alamos High School

Title: Hydroponic Agriculture: Individual vs Commercial Growth in New Mexico'

Teacher/Sponsor: Eva Abeyta

T# 2 Uriah S Sanchez

Los Alamos High School

Title: Hydroponic Agriculture: Individual vs Commercial Growth in New Mexico'

Teacher/Sponsor: Eva Abeyta

T# 3 Gabriel M Holesinger

Los Alamos High School

Title: Hydroponic Agriculture: Individual vs Commercial Growth in New Mexico'

Teacher/Sponsor: Eva Abeyta

Riley E Jakino

Piedra Vista High School

Title: Water Purification Using Plants'

Teacher/Sponsor: Jennifer Riddle

Riley J Clavel

Roy Municipal School

Title: Who's the Boss of the Moss?'

Teacher/Sponsor: Loretta m Overberger

McKayla T Gilbert

Farmington High School

Title: Impacted Zea Mays After the Gold King Mine Spill'

Teacher/Sponsor: Robert L Watson

Ryan S Helmer

Jefferson Montessori Academy

Title: Solar Water Farming: Using Desiccants to Explore New Water Opportunities in Arid Climates'

Teacher/Sponsor: Kerrie Thatcher

U.S. Air Force

To encourage studies in the math, sciences, technology and engineering areas.

Junior or Senior Division

Recognition

Messenger bag containing card reader/writer, custom single speaker, and a beta adapter set.

Skylar S Hughes

Albq. Institute for Math and Science Teacher/Sponsor: Reginald Tyler
 Title: Analysis of Spidron- Fractal Based Structures in Force Absorption Applications'

T# 1 Erik R Boldt

Albq. Institute for Math and Science Teacher/Sponsor: Reginald Tyler
 Title: Raspberry Pi Cluster Computer 2.0'

T# 2 Victor M Ramirez

Albq. Institute for Math and Science Teacher/Sponsor: Reginald Tyler
 Title: Raspberry Pi Cluster Computer 2.0'

Clara Chavez

Alta Vista Early College HS Teacher/Sponsor: alicia stevens
 Title: Papercrete vs. Concrete: Which is the Best Sound Insulator'

Nicholas R Harvey

Jefferson Montessori Academy Teacher/Sponsor: Kerrie Thatcher
 Title: Visualizing Pitch'

U.S. Metric Association Award

Given to the project that involves quantitative measures using the SI metric system.

Junior or Senior Division

Recognition

Certificate

Kaylin N McLiverty

Navajo Preparatory School Inc Teacher/Sponsor: Yolanda Flores
 Title: Diabetes Biomarker Study on the Navajo Reservation'

Alexander Glick

V. Sue Cleveland HS Teacher/Sponsor: Austin Grant
 Title: Sticking to the Road'

Vannetta Perry Award

Project which best exemplifies the love of scientific exploration.

Junior or Senior Division

Recognition

Plaque

Miranda R McDaugale

Grants High School

Title: Back to School Bacteria'

Teacher/Sponsor: Shelby Alexander

Yale Science & Engineering Association Award

Most outstanding exhibit in Computer Science, Engineering, Physics or Chemistry

Senior Division

Recognition

Certificate

Elijah - Pelofske

Los Alamos High School

Title: RSA Based Primality Test'

Teacher/Sponsor: Katie Tauxe

Samuel R Crooks

Los Alamos High School

Title: Implementing an Artificial Neural Network to Recognize Handwritten Digits'

Teacher/Sponsor: Katie Tauxe

Senior Category: Animal ScienceTop of Category

Senior Division

Honorable Mention

Certificate and Ribbon

Louie R Martinez

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Effect of Different Vitamins and Minerals on Growth of Nematodes'

Carrina R Tallbrother

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Looking Downstream: Effects of Nanosilver on Freshwater Organisms '

Marissa Armijo

West Las Vegas High School

Teacher/Sponsor: Erika Guaba

Title: How Does Population of Big-Game Animals Shift Through Hunting Seasons? '

Third Place

\$50, medal, and certificate

Samantha A Multari

St. Pius X High School

Teacher/Sponsor: Rebecca Giron

Title: Can Seaweed Save the Coral? Part V'

Second Place

\$100, medal, and certificate

Paris C Reuel

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez

Title: Caffeine: The Real Killer?'

First Place

\$150, Medal, and Certificate

Karin R Ebey

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Modeling American Alligator Population Dynamics'

Senior Category: Behavioral and Social SciencesTop of Category

Senior Division

Honorable Mention

Ribbon and certificate

Nilesh Mukundan

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: There's and app for that!

Sydney E Gilbert

Piedra Vista High School

Teacher/Sponsor: Jennifer Riddle

Title: Baroque'n Brain: A Glimpse Into Baroque Musics Neurological Support in Education'

Third Place

\$50, medal, certificate

Elias G Elicio

Capital High School

Teacher/Sponsor: Kelly Phillips

Title: Binaural Beats'

Second Place

\$100, medal, and certificate

Mustafa R Muhyi

Las Cruces High School

Teacher/Sponsor: James McDowell

Title: An Interactive Design and Emotion Assessment of an Upper Limb Therapy with Tangible Robotic Companio'

First Place

\$150, medal, an certificate

Sammy R Homsy

Centennial High School

Teacher/Sponsor: Rana Mreiwed

Title: A Monitoring Device For Congestive Heart Failure Patients And Its Affect on the patients Compliance'

Senior Category: ChemistryTop of Category

Senior Division

Honorable Mention

Ribbon and Certificate

Sarah Troescher

Amy Biehl Charter Highschool

Teacher/Sponsor: Sandra Mack

Title: How does temperature affect the eerie blue glow of the chemical luminol?'

Third Place

\$50, medal and certificate

Miaouxochitl K Haskie

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Sunscreen: Natural Clay vs. Commercially Made'

Second Place

\$100, medal, and certificate

Nydia E. Sanchez

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Scientific Art'

First Place

\$150, medal, certificate

Omar J Ordoñez

Los Lunas High School

Teacher/Sponsor: Lynne A Mozer

Title: A Salt Solution '

Senior Category: Computer ScienceTop of Category

Senior Division

Honorable Mention

Ribbon and Certificate

Devin P Munson

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: No Child Left Behind'

Samuel R Crooks

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Implementing an Artificial Neural Network to Recognize Handwritten Digits'

Third Place

**TEAM: EACH MEMBER RECEIVES \$50, Medal, and Certificate

T# 1 Erik R Boldt

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: Raspberry Pi Cluster Computer 2.0'

T# 2 Victor M Ramirez

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: Raspberry Pi Cluster Computer 2.0'

Second Place

\$100, Medal, and Certificate

Simon G Armijo

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton

Title: Optical Navigation System For All-Terrain Robot'

First Place

\$150, Medal, and Certificate

Charles S Strauss

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: Teaching an Artificial Intelligence with an Artificial Intelligence'

Senior Category: Earth Sciences

Top of Category

Senior Division**Honorable Mention**

Ribbon and Certificate

Kerri J Nanco

Grants High School

Title: The Weather Effects on Rocks'

Teacher/Sponsor: Shelby Alexander

First Place

\$150, Medal, and Certificate

Lillian K Petersen

Los Alamos High School

Title: Predicting Food Shortages in Africa from Satellite Imagery'

Teacher/Sponsor: Katie Tauxe

Senior Category: Energy and Transportation

Top of Category

Senior Division**Honorable Mention**

Ribbon and Certificate

Spencer G Pennypacker

Carlsbad High School

Title: Issues with America's Roadways '

Teacher/Sponsor: Deborah Haggerton

Third Place

\$50, Medal and Certificate

Declan G Oleary

Los Alamos High School

Title: Does NM Code require enough Insulation of Slab Floors?'

Teacher/Sponsor: Eva Abeyta

Second Place

\$100, Medal, and Certificate

Sabastian J Benavidez

AIMS@UNM

Title: The Optimal Location for a Thermal Electric Generator on a Vehicle'

Teacher/Sponsor: Reginald L Tyler

First Place

\$150, Medal, and Certificate

Alexander Glick

V. Sue Cleveland HS

Title: Sticking to the Road'

Teacher/Sponsor: Austin Grant

Senior Category: EngineeringTop of Category

Senior Division

Honorable Mention

Ribbon and Certificate

Delaney A Hammond

Piedra Vista High School

Title: How to Make a More Efficient DC Motor'

Teacher/Sponsor: Jennifer Riddle

Kayla M Moehn

St. Pius X High School

Title: Rubber in the Rut'

Teacher/Sponsor: Rebecca Giron

Third Place

\$50, Medal, and Certificate

Koen E Overberger

Roy Municipal School

Title: Put it to the Test: Which on is the Best?'

Teacher/Sponsor: Loretta m Overberger

Second Place

\$100, Medal, and Certificate

Marc M Mirabal

Grants High School

Title: EMG Controlled Bionic Hand'

Teacher/Sponsor: Shelby Alexander

First Place

\$150, Medal, and Certificate

Skyler S Hughes

Albq. Institute for Math and Science

Title: Analysis of Spidron- Fractal Based Structures in Force Absorption Applications'

Teacher/Sponsor: Reginald Tyler

Senior Category: Environmental Sciences

Top of Category

Senior Division**Third Place**

\$50, Medal, and Certificate

Riley J Clavel

Roy Municipal School

Title: Who's the Boss of the Moss?'

Teacher/Sponsor: Loretta m Overberger

Second Place

\$100, Medal, and Certificate

Stephen N Sanders

Grants High School

Title: The Mean Green Polyethylene Machine'

Teacher/Sponsor: Shelby Alexander

First Place

\$150, Medal, and Certificate

McKayla T Gilbert

Farmington High School

Title: Impacted Zea Mays After the Gold King Mine Spill'

Teacher/Sponsor: Robert L Watson

Senior Category: Mathematical Sciences

Top of Category

Senior Division**Third Place**

\$50, Medal, and Certificate

AnaMaria Perez

Albuquerque Academy

Title: Analyzing Patterns with in an Original Egyptian Fraction Decomposition Algorithm'

Teacher/Sponsor: Kevin W Fowler

Second Place

\$100, Medal, and Certificate

Jen Marie B Phifer

Los Lunas High School

Title: What's Missing?'

Teacher/Sponsor: Lynne A Mozer

First Place

\$150, Medal, and Certificate

Elijah - Pelofske

Los Alamos High School

Title: RSA Based Primality Test'

Teacher/Sponsor: Katie Tauxe

Senior Category: Medicine and Health ScienceTop of Category

Senior Division

Honorable Mention

Ribbon and Certificate

Morgan E MacKenzie

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

Title: Investigating Trends that Articulate Correlation Between Obesity and Socioeconomic Factors '

Third Place

\$50, Medal, and Certificate

Kaylin N McLiverty

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Diabetes Biomarker Study on the Navajo Reservation'

Second Place

**TEAM: MEMBERS SPLIT \$100, Medal and Certificate

T# 1 Nathaniel E Jobe

San Juan College High School

Teacher/Sponsor: Geizi Dejka

Title: Biowarfare: Battle at the Cellular Level'

T# 2 Jairaki E Davis

San Juan College High School

Teacher/Sponsor: Geizi Dejka

Title: Biowarfare: Battle at the Cellular Level'

First Place

\$150, Medal, and Certificate

Lien T Tang

Manzano High School

Teacher/Sponsor: Achraf Nouredine

Title: Optimization of Lipid-Coated Mesoporous Silica Nanoparticles for Cancer Immunotherapy'

Senior Category: MicrobiologyTop of Category

Senior Division

Honorable Mention

Ribbon and Certificate

Heather D Wheeler

San Juan College High School

Teacher/Sponsor: Geizi Dejka

Title: Determination of Antimicrobial Activity from Honey Produced from Different Flower Sources'

Third Place

\$50, Medal, and Certificate

Mackenzie E Mills

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro

Title: The Effects of Copper Chloride on Algal Growth and Bioluminescence'

Second Place

\$100, Medal, and Certificate

Alissa M Puderbaugh

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Dialing Diseases - How Safe is your Phone?'

First Place

\$150, Medal, and Certificate

George W Santarpia

AIMS@UNM

Teacher/Sponsor: Reginald L Tyler

Title: Can Bacteriophage Be Used to Treat Bacterial Imbalances Associated With IBS and IBD?'

Senior Category: Physics and AstronomyTop of Category

Senior Division

Honorable Mention

Ribbon and Certificate

Elizabeth Quintana

Alta Vista Early College HS

Teacher/Sponsor: alicia stevens

Title: Laminar Flow: A Comparative Study of Newtonian Fluids to Water'

Emma C Mohs

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Cost Savings by Eliminating Wasted Electricity'

Third Place

\$50, Medal, and Certificate

Sky A Harper

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Lunar Origin: Is It Really Made of Cheese?'

Second Place

\$100, Medal, and Certificate

Isabela G Cenicerros

Bernalillo High School

Teacher/Sponsor: Ivy Alefante

Title: Effects of Geometry and Voltage on Ion Engine Design'

First Place

\$150, Medal, and Certificate

Zachary E Goodrich

Grants High School

Teacher/Sponsor: Shelby Alexander

Title: Asteroid Repulsion'

Senior Category: Plant SciencesTop of Category

Senior Division

Honorable Mention****TEAM: EACH MEMBER RECEIVES Ribbon and Certificate****T# 1 Alandra C Barreda**

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

Title: Effects of Lighting Conditions on Plant Pigment part. 2'

T# 2 Chloe I Fabbri

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

Title: Effects of Lighting Conditions on Plant Pigment part. 2'

Third Place****TEAM: MEMBERS SPLIT \$50, Medal and Certificate****T# 1 Xavier McTeigue**

Los Alamos High School

Teacher/Sponsor: Eva Abeyta

Title: Hydroponic Agriculture: Individual vs Commercial Growth in New Mexico'

T# 2 Uriah S Sanchez

Los Alamos High School

Teacher/Sponsor: Eva Abeyta

Title: Hydroponic Agriculture: Individual vs Commercial Growth in New Mexico'

T# 3 Gabriel M Holesinger

Los Alamos High School

Teacher/Sponsor: Eva Abeyta

Title: Hydroponic Agriculture: Individual vs Commercial Growth in New Mexico'

Second Place

\$150, Medal and Certificate

Logan C Reano

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

Title: Anti-Glycemic Properties of Traditional Navajo Plants'

First Place

\$150, Medal and Certificate

Makayla R Gates

Valencia High School

Teacher/Sponsor: Holly Ice-Gates

Title: Mimosa pudica as Indicator for Comparative Adverse Effects of Topical Anesthetics'

Senior Division Life Sciences Grand Award

Highest award given by New Mexico Science and Engineering Fair to a project in the Senior Division in the field of Life Sciences.

Senior Division

Excellence

All-expense paid trip to Grand Prize winners and one sponsor to the Intel International Science and Engineering Fair held in Pittsburgh, PA on May 13-18, 2018.

George W Santarpia

AIMS@UNM

Teacher/Sponsor: Reginald L Tyler

Title: 'Can Bacteriophage Be Used to Treat Bacterial Imbalances Associated With IBS and IBD?'

Excellence

All-expense paid trip to Grand Prize winners and one sponsor to the Intel International Science and Engineering Fair held in Phoenix, AZ on May 8-13, 2016.

Lien T Tang

Manzano High School

Teacher/Sponsor: Achraf Nouredine

Title: 'Optimization of Lipid-Coated Mesoporous Silica Nanoparticles for Cancer Immunotherapy'

Senior Division Physical Sciences Grand Award

Highest award given by New Mexico Science and Engineering Fair to a project in the Senior Division in the field of Physical Sciences.

Senior Division

Excellence

All-expense paid trip to Grand Prize winners and one sponsor to the Intel International Science and Engineering Fair held in Pittsburgh, PA on May 13-18, 2018.

Lillian K Petersen

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: 'Predicting Food Shortages in Africa from Satellite Imagery'

Excellence

All-expense paid trip to Grand Prize winners and one sponsor to the Intel International Science and Engineering Fair held in Phoenix, AZ on May 8-13, 2016.

Charles S Strauss

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

Title: 'Teaching an Artificial Intelligence with an Artificial Intelligence'

Skyler S Hughes

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

Title: 'Analysis of Spidron- Fractal Based Structures in Force Absorption Applications'