

**Rose Baca-Rivet Award**

AN: 30

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**Junior or Senior Division**

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GN 1

**Recognition**

Plaque

**Lourdes G Mendez**

Female Grd: 11 Cat: SENGR Exn: 2011 PN: 1

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher 1

Title: Mechanics of a Mini Explosion'

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**Klipsch School of Electrical & Computer Engineering, NMSU**

AN: 88

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

Up to 6 \$50 gift cards

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**Junior or Senior Division**

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GN 1

**Recognition**

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

Up to 6 \$50 gift cards

**Tony C Yan**

Male Grd: 10 Cat: SCOMP Exn: 1753 PN: 7

Portales High School

Teacher/Sponsor: Laura J DeBusk 1

Title: Compiling A Custom Android OS'

**Kelly N Charley**

Female Grd: 12 Cat: SENGR Exn: 2001 PN: 8

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Utilizing Solar Technologies to Heat a Traditional Home'

**Jake W Werner**

Male Grd: 9 Cat: SENGR Exn: 2016 PN: 9

Los Alamos High School

Teacher/Sponsor: Katie Tauxe 1

Title: Solid State Tesla Coil'

**Marc M Mirabal**

Male Grd: 9 Cat: SENGR Exn: 2013 PN: 10

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: EYERONIC2'

**Spenser J Millburn**

Female Grd: 11 Cat: SENGR Exn: 2012 PN: 11

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez 1

Title: Earthquake Neutralization'

**Joshua A Fambro**

Male Grd: 10 Cat: SENGR Exn: 2005 PN: 12

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: DeadFire: Ultrasonic Frequency Fire Suppression of Wood-Based Materials'

**Sponsor of the Year**

AN: 94

**Junior or Senior Division**

GN 1

**Recognition**

: **Laura Wilbanks**  
Dora High School

Special Winner

PN: 1

**Scientific Paper Competition**

AN: 67

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

**Senior Division**

GN 2

**Honorable Mention****Amaya P Coblentz**

Female Grd: 9 Cat: SPLANT Exn: 2601 PN: 4

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: The Photobiology of Lichen Revisited: The Chlorophyll Connection'

**Third Place**

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

**Lea M Godret-Miertschin**

Female Grd: 12 Cat: SCHEM Exn: 1805 PN: 3

Sandia High School

Teacher/Sponsor: Valerie Veroz 1

Title: Investigating Effects of Vegetable Oil Saturation in Extraction of Quinine from cinchona succirubra'

**Second Place**

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

**Lillian K Petersen**

Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 2

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: America's Farming Future: The Impact of Climate Change on Crop Yields'

**First Place**

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

**Sanjiv - Harikumar**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 1

Las Cruces High School

Teacher/Sponsor: James McDowell 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'

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

AN: 70

Scientific Paper Competition

GN 2

**Senior Division****Second Place**

\$175 Cash Award

**Sanjiv - Harikumar**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 2

Las Cruces High School

Teacher/Sponsor: James McDowell 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'**First Place**

\$200 Cash Award

**Lea M Godret-Miertschin**

Female Grd: 12 Cat: SCHEM Exn: 1805 PN: 1

Sandia High School

Teacher/Sponsor: Valerie Veroz 1

Title: Investigating Effects of Vegetable Oil Saturation in Extraction of Quinine from cinchona succirubra'

**Teacher Award**

\$200 each of 1st place winner

**Valerie Veroz(Teacher)**

Female Grd: 12 Cat: SCHEM Exn: 1805 PN: 3

Sandia High School

Student: Lea M Godret-Miertschin 1

Title: Investigating Effects of Vegetable Oil Saturation in Extraction of Quinine from cinchona succirubra'

**Teacher Award**

\$175 to teacher of first place winner

**James McDowell(Teacher)**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 4

Las Cruces High School

Student: Sanjiv - Harikumar 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'

**Air and Waste Management Association - Rocky Mountain States Section**

AN: 26

Projects that involve the fields of air quality science and engineering and/or solid waste management.

**Senior Division**

GN 2

**Second Place**

Cash Award

**Lillian K Petersen**

Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 2

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: America's Farming Future: The Impact of Climate Change on Crop Yields'

**First Place**

Cash Award

**Tyra H Nicolay**

Female Grd: 12 Cat: SENVIR Exn: 2108 PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Quantitative Data Based Research on the Correlation between Ambient Air Pollutants and Health'

**Albuquerque Chapter of the American Statistical Association**

AN: 69

Criteria: Best use of statistics in science fair project

**Senior Division**

GN 1

**Second Place**

Cash Award

**Tyra H Nicolay**

Female Grd: 12 Cat: SENVIR Exn: 2108 PN: 2

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Quantitative Data Based Research on the Correlation between Ambient Air Pollutants and Health'

**First Place**

Cash Award

**Lillian K Petersen**

Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 1

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: America's Farming Future: The Impact of Climate Change on Crop Yields'

**American Chemistry Society - Central New Mexico Local Section**

AN: 31

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**

GN 3

**Recognition**

Cash award

**Sanjiv - Harikumar**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 1

Las Cruces High School

Teacher/Sponsor: James McDowell 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'

**American Meteorological Society**

AN: 1

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

**Senior Division**

GN 1

**Recognition**

Certificate

**Michael O Aslam**

Male Grd: 9 Cat: SMATH Exn: 2201 PN: 1

Los Alamos High School

Teacher/Sponsor: Tariq Aslam 1

Title: Can We Stop a Tsunami?'

**Lillian K Petersen**

Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 2

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: America's Farming Future: The Impact of Climate Change on Crop Yields'

**American Nuclear Society, Trinity Section**

AN: 59

For best project related to nuclear science or nuclear engineering.

**Senior Division**

GN 2

**Recognition**

Cash Award

**Charles S Strauss**

Male Grd: 9 Cat: SPHY Exn: 2509 PN: 1

Los Alamos High School

Teacher/Sponsor: Charlie Strauss 1

Title: Cloudy with a Chance of Muons?'

**American Psychological Association**

AN: 2

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

**Junior or Senior Division**

GN 1

**Recognition**

Certificate

**Samantha D DeWees-Keller**

Female Grd: 12 Cat: SBEH Exn: 1602 PN: 2

Piedra Vista High School

Teacher/Sponsor: Gail Silva 1

Title: Perception vs. Performance: Effects of Stress Perception on Academic Performance'

**American Vacuum Society, New Mexico Chapter**

AN: 36

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

**Senior Division**

GN 1

**Second Place**

Cash prize

**Lillian L Sandoval**

Female Grd: 11 Cat: SENGR Exn: 2014 PN: 2

AIMS@UNM

Teacher/Sponsor: Michael J Harris 1

Title: What are the thermal capabilities of igneous rock, mud, and clay in amalgamate form?'

**First Place**

Cash Prize

**Adittyo - Paul**

Male Grd: 9 Cat: STRAN Exn: 2703 PN: 1

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler 1

Title: Generating electricity using micro-turbines from a forward moving automobile'

**Anthony A. Ortiz Award**

AN: 20

For best Behavioral and Social Sciences Project.

**Junior or Senior Division**

GN 1

**Recognition**

Plaque

**Samantha D DeWees-Keller**

Female Grd: 12 Cat: SBEH Exn: 1602 PN: 1

Piedra Vista High School

Teacher/Sponsor: Gail Silva 1

Title: Perception vs. Performance: Effects of Stress Perception on Academic Performance'

**Rev. Charles and Mary Ashmore Memorial Awards**

AN: 65

In memory of Rev. Charles and Mary Ashmore Memorial Awards

**Junior or Senior Division**

GN 1

**Recognition**

\$50 Cash Award

**Jade E Cates**

Female Grd: 11 Cat: SBEH Exn: 1601 PN: 1

Jefferson Montessori Academy

Teacher/Sponsor: Kerrie Thatcher 1

Title: Does Gender Have Anything to do with Anxiety'

**Shanti-Janai - Rosen**

Female Grd: 11 Cat: SBEH Exn: 1607 PN: 2

Media Arts Collaborative Charter School

Teacher/Sponsor: Rachel Benner 1

Title: The Effect of School Sector Income on the Amount of Minorities in Schools'

**ASM International - Los Alamos Chapter**

AN: 32

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**

GN 1

**Third Place**

\*\*TEAM: MEMBERS SPLIT \$100 Cash Prize

**T# 1 Casey V Chong**

Female Grd: 11 Cat: SCHEM Exn: 1802 PN: 3

AIMS@UNM

Teacher/Sponsor: Michael J Harris 1

Title: Forming a Pharmaceutical Film Phase II; Can Extracted Amylose be Utilized to Create a Film?'

**T# 2 Mareetha Ho**

Female Grd: 11 Cat: SCHEM Exn: 1802 PN: 3

AIMS@UNM

Teacher/Sponsor: Michael J Harris 2

Title: Forming a Pharmaceutical Film Phase II; Can Extracted Amylose be Utilized to Create a Film?'

**Second Place**

\$150 Cash Prize

**Skylar S Hughes**

Male Grd: 11 Cat: SENGR Exn: 2007 PN: 2

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler 1

Title: Utilization of the Spidron System for Generating Force Absorbing Structures'

**First Place**

\$200 Cash Award

**Daniel A Cordova**

Male Grd: 9 Cat: SENGR Exn: 2002 PN: 1

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: NanoForm: Lightweight, Antibacterial, Self-Healing and Non-Allergenic Protective Cloth'

**ASM Materials Education Foundation**

AN: 6

Best Materials Engineering Project

**Junior or Senior Division**

GN 1

**Recognition**

Certificate

**David C Stotzer**

Male Grd: 9 Cat: SPHY Exn: 2508 PN: 1

St. Pius X High School

Teacher/Sponsor: Zach Nelson 1

Title: Optimal Hull Design for Carrying Maximum Weight'

**Association for Women Geoscientists**

AN: 7

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

GN 1

**Junior or Senior Division****Recognition**

Certificate

**Maislyn E Clark**

Female Grd: 9 Cat: SENVIR Exn: 2104 PN: 2

Dora High School

Teacher/Sponsor: Laura Wilbanks 1

Title: Wind Erosion on Cryptobiotic Soil'

**ASU Walton Sustainability Solutions Initiatives**

AN: 8

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

GN 1

**Senior Division****Recognition**

Certificate and nomination to enter for the Grand Prize of a trip to Arizona for the 2017 Sustainability Solutions Festival.

**Ryan E Pena**

Male Grd: 10 Cat: STRAN Exn: 2704 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Start Your Engines'

**Adittyo - Paul**

Male Grd: 9 Cat: STRAN Exn: 2703 PN: 2

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler 1

Title: Generating electricity using micro-turbines from a forward moving automobile'

**Clay T. Smith Award**

AN: 21

Project with the greatest potential for immediate practical application.

GN 1

**Recognition**

Plaque

**Marc M Mirabal**

Male Grd: 9 Cat: SENGR Exn: 2013 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: EYERONIC2'

**Climate Change New Mexico**

AN: 80

Outstanding project related to climate change

GN 2

**Senior Division****Recognition**

Cash prize and Certificate

**Nizhoni L Tallas**

Female Grd: 12 Cat: STRAN Exn: 2706 PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Thin-Panel, Cylinder-Arrayed, Solar Water Heater '



**"Excellence in Geoscience" Award**

AN: 37

Given to research projects within the broad area of geoscience and whose execution of the research demonstrates scholarship, creativity and thoroughness.

GN 2

**Senior Division****Recognition**

Cash Award and Certificate

**Cameron D. Zielinski**

Male Grd: 11 Cat: SENVIR Exn: 2113 PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: Do Mine Spills Really Destroy the Environment? Phase II'

**Dr. William A. Gross Memorial Award**

AN: 35

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

GN 1

**Junior or Senior Division****Recognition**

\$100 Cash Award

**Kelly N Charley**

Female Grd: 12 Cat: SENGR Exn: 2001 PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Utilizing Solar Technologies to Heat a Traditional Home'

**Intel Excellence in Computer Science Award**

AN: 9

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

GN 1

**Senior Division****Recognition**

\$200 Cash Award and Certificate

**Mustafa I Muhyi**

Male Grd: 10 Cat: SCOMP Exn: 1751 PN: 1

Arrowhead Park Early College High School

Teacher/Sponsor: Rajaa Shindi 1

Title: EZ-Sleep: A Low Cost Portable Device for Detecting Obstructive Sleep Apnea--with Computational Machi'

**Rebecca - Pattichis**

Female Grd: 11 Cat: SCOMP Exn: 1752 PN: 2

AIMS@UNM

Teacher/Sponsor: Michael J Harris 1

Title: Texture Analysis on Cerebrospinal Fluid (CSF) to Predict the Progression of Multiple Sclerosis'

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

AN: 62

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

GN 1

**Junior or Senior Division****Recognition**

\$50 Cash Award

**Jakob T Tsinnijinnie**

Male Grd: 11 Cat: SBEH Exn: 1608 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Gum, Music, and the MInd'

**First Place**

\$50 Cash Award

**Parker A Yi**

Male Grd: 9 Cat: SBEH Exn: 1609 PN: 2

Portales High School

Teacher/Sponsor: Laura J DeBusk 1

Title: Are Games Gunning Down Grades?'

**Mu Alpha Theta Award**

AN: 10

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.

GN 1

**Senior Division****Recognition**

Certificate

**AnaMaria - Perez**

Female Grd: 9 Cat: SMATH Exn: 2202 PN: 1

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler 1

Title: Decomposing Fractions into the Sum of Distinct Unit Fractions and the Correlating Patterns'

**Zachary E Goodrich**

Male Grd: 11 Cat: SPHY Exn: 2503 PN: 2

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Theoretical Asteroid Repulsion'

**NASA Earth System Science Award**

AN: 11

Presented to the Student whose project offers the greatest insight into Earth's interconnected systems.

GN 1

**Junior or Senior Division****Recognition**

Certificate

**Michael O Aslam**

Male Grd: 9 Cat: SMATH Exn: 2201 PN: 2

Los Alamos High School

Teacher/Sponsor: Tariq Aslam 1

Title: Can We Stop a Tsunami?'

**Naval Science Award Program**

AN: 3

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

**Senior Division**

GN 1

**Recognition**

\*\*TEAM: EACH MEMBER RECEIVES Certificate of Achievement; Medallion; and \$75 gift card.

<b>T# 1</b>	<b>Priyanka V Velappan</b>	Female	Grd: 11	Cat: SMED-H	Exn: 2309	PN: 1
	Los Alamos High School				Teacher/Sponsor: Nileena Velappan	1
	Title: Modeling and Experimental Characterization of IgE Receptor Signaling Year 2'					
<b>T# 2</b>	<b>Alex Ionkov</b>	Male	Grd: 11	Cat: SMED-H	Exn: 2309	PN: 1
	Los Alamos High School				Teacher/Sponsor: Nileena Velappan	2
	Title: Modeling and Experimental Characterization of IgE Receptor Signaling Year 2'					
	<b>David C Stotzer</b>	Male	Grd: 9	Cat: SPHY	Exn: 2508	PN: 2
	St. Pius X High School				Teacher/Sponsor: Zach Nelson	1
	Title: Optimal Hull Design for Carrying Maximum Weight'					
	<b>Claire A Martinez</b>	Female	Grd: 10	Cat: SCHEM	Exn: 1811	PN: 3
	Academy Technology Classics				Teacher/Sponsor: Lori Brown	1
	Title: Testing Ignition Rates of Different Types of Flame Retardant Fabrics'					
	<b>Hiba I Muhyi</b>	Female	Grd: 12	Cat: SBEH	Exn: 1606	PN: 4
	Arrowhead Park Early College High School				Teacher/Sponsor: Rajaa Shindi	1
	Title: RoboGlove: A Design for Engagement and Hedonic Motivation with Visual-Spatial for Deaf and Hearing '					

**New Mexicans for Science and Reason (NMSR)**

AN: 58

In recognition of the thought and effort that went into producing a successful project.

**Junior or Senior Division**

GN 1

**Recognition**

\$200 Cash Award and Letter

<b>Geena L Tsosie</b>	Female	Grd: 10	Cat: STRAN	Exn: 2707	PN: 1	
Navajo Preparatory School Inc					Teacher/Sponsor: Yolanda Flores	1
Title: Aero-Car'						

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**New Mexico Biotechnology & Biomedical Association (NMBio)**

AN: 27

NM BioGENEius Challenge Winner - All expense paid trip to compete in the national BioGENEius challenge held at the BIO Convention in San Francisco, CA on June 5-8, 2016.

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**Senior Division**

GN 1

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**First Place**

All expense paid trip to National BioGENEius challenge in San Francisco, CA.

**Sanjiv - Harikumar**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 1

Las Cruces High School

Teacher/Sponsor: James McDowell 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'

**New Mexico Network for Women in Science and Engineering**

AN: 38

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**

GN 1

**Recognition**

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

**Lea M Godret-Miertschin** Female Grd: 12 Cat: SCHEM Exn: 1805 PN: 4

Sandia High School Teacher/Sponsor: Valerie Veroz 1

Title: Investigating Effects of Vegetable Oil Saturation in Extraction of Quinine from cinchona succirubra'

**Chali A Simpson** Female Grd: 12 Cat: SEARTH Exn: 1903 PN: 5

Grants High School Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity: The Genesis'

**Sophia - Li** Female Grd: 11 Cat: SENGR Exn: 2010 PN: 6

Los Alamos High School Teacher/Sponsor: Yifeng Zhang 1

Title: Nuclear Thermal Rockets: Mars and Beyond'

**Andrea L Chin-Lopez** Female Grd: 12 Cat: SENVIR Exn: 2103 PN: 7

Taos High School Teacher/Sponsor: Laura J. Tenorio 1

Title: Crabsorption: Absorption, Neutralization & Diffusion of Pharma via 1mm/1um Particulate Chitosan'

**Ashley N Martinez** Female Grd: 10 Cat: SMICRO Exn: 2402 PN: 8

Taos High School Teacher/Sponsor: Laura J. Tenorio 1

Title: Sweet Celltopia: Diabetic Counteragents Impact on Cell Viability & Function'

**Junior or Senior Division**

GN 2

**Honorable Mention**

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

**Amanda R Livingston** Female Grd: 12 Cat: SPHY Exn: 2505 PN: 1

Grants High School Teacher/Sponsor: Shelby Alexander 1

Title: Ion Propulsion'

**Geena L Tsosie** Female Grd: 10 Cat: STRAN Exn: 2707 PN: 2

Navajo Preparatory School Inc Teacher/Sponsor: Yolanda Flores 1

Title: Aero-Car'

**Excellence**

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

**Makayla R. Gates** Female Grd: 9 Cat: SPLANT Exn: 2604 PN: 5

Valencia High School Teacher/Sponsor: Holly Ice-Gates 1

Title: A Shroom With A View: Biofabricating Mycodomes for Disaster Relief'

**New Mexico Optometric Association**

AN: 4

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

GN: 1

**Senior Division****Honorable Mention**

Certificates

**Danielle R Diaz**

Female Grd: 12 Cat: SMED-H Exn: 2303 PN: 4

Silver High School

Teacher/Sponsor: todd pugmire 1

Title: Diabetes or Just Dirty Hands Part 2'

**Third Place**

Cash Prize and Certificates

**Danielle R Diaz**

Female Grd: 12 Cat: SMED-H Exn: 2303 PN: 3

Silver High School

Teacher/Sponsor: todd pugmire 1

Title: Diabetes or Just Dirty Hands Part 2'

**Second Place**

Cash Prize and Certificates

**Daniel A Cordova**

Male Grd: 9 Cat: SENGR Exn: 2002 PN: 2

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: NanoForm: Lightweight, Antibacterial, Self-Healing and Non-Allergenic Protective Cloth'

**First Place**

Cash Prize and Certificates

**Marc M Mirabal**

Male Grd: 9 Cat: SENGR Exn: 2013 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: EYERONIC2'

**New Mexico Science Teachers Association**

AN: 28

To an educator that deserves an award for their hard work and dedication.

GN: 1

**Junior Division****First Place**

\$50

**Sunny H Nez**

Female Grd: 6 Cat: SPLANT Exn: 2607 PN: 2

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Lingering Heavy Metal and Metalloid Toxins in the Allium cepa Root Tip and Bulb from the Animas and '

**New Mexico Solar Energy Association**

AN: 34

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

GN 2

**Senior Division****Third Place**

\$35 Cash Award

**Brian K Bermudez**

Male Grd: 9 Cat: STRAN Exn: 2701

PN: 3

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler

1

Title: Increasing Solar Panel Efficiency through the Addition of Lenses '

**Second Place**

\$50 Cash Award

**Nizhoni L Tallas**

Female Grd: 12 Cat: STRAN Exn: 2706

PN: 2

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

1

Title: Thin-Panel, Cylinder-Arrayed, Solar Water Heater '

**First Place**

\$75 Cash Award

**Kelly N Charley**

Female Grd: 12 Cat: SENGR Exn: 2001

PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

1

Title: Utilizing Solar Technologies to Heat a Traditional Home'

**Professional Aerospace Contractors Association**

AN: 61

For an outstanding project relevant to aerospace science and engineering.

GN 1

**Senior Division****Third Place**

Cash Award

**Rebecca - Pattichis**

Female Grd: 11 Cat: SCOMP Exn: 1752

PN: 3

AIMS@UNM

Teacher/Sponsor: Michael J Harris

1

Title: Texture Analysis on Cerebrospinal Fluid (CSF) to Predict the Progression of Multiple Sclerosis'

**Second Place**

Cash Award

**Sophia - Li**

Female Grd: 11 Cat: SENGR Exn: 2010

PN: 2

Los Alamos High School

Teacher/Sponsor: Yifeng Zhang

1

Title: Nuclear Thermal Rockets: Mars and Beyond'

**First Place**

\*\*TEAM: MEMBERS SPLIT Cash Award

**T# 1 Jamie N LeVie**

Female Grd: 12 Cat: SMED-H Exn: 2306

PN: 1

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

1

Title: Interleukin-10 and A $\beta$  Interaction in a Computational Biology Model'**T# 2 Maribel Garcia**

Female Grd: 12 Cat: SMED-H Exn: 2306

PN: 1

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

2

Title: Interleukin-10 and A $\beta$  Interaction in a Computational Biology Model'

**Rex Robinson Award**

AN: 24

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

GN 1

**Junior or Senior Division****Recognition**

Plaque

**Lillian K Petersen**

Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 1

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: America's Farming Future: The Impact of Climate Change on Crop Yields'

**Ricoh Sustainable Development Award**

AN: 13

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

GN 1

**Junior or Senior Division****Recognition**

Certificate

**Nizhoni L Tallas**

Female Grd: 12 Cat: STRAN Exn: 2706 PN: 2

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Thin-Panel, Cylinder-Arrayed, Solar Water Heater '

**Rocky Mountain Water Environment Association**

AN: 66

Projects related to the field of water/wastewater resources.

GN 2

**Senior Division****Second Place**

\$200 Cash Award

**Cameron A Gonzales**

Male Grd: 9 Cat: SEARTH Exn: 1901 PN: 2

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Filtration, Naturally: Nanoparticles and Biopolymers as Filtration Agents'

**First Place**

\$400 Cash Award

**Andrea L Chin-Lopez**

Female Grd: 12 Cat: SENVIR Exn: 2103 PN: 1

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Crabsorption: Absorption, Neutralization &amp; Diffusion of Pharma via 1mm/1um Particulate Chitosan'



**Society for In Vitro Biology Award**

AN: 14

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

GN 1

**Junior or Senior Division****Recognition**

\*\*TEAM: EACH MEMBER RECEIVES Certificate

**T# 1 Priyanka V Velappan**

Female Grd: 11 Cat: SMED-H Exn: 2309 PN: 2

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 1

Title: Modeling and Experimental Characterization of IgE Receptor Signaling Year 2'

**T# 2 Alex Ionkov**

Male Grd: 11 Cat: SMED-H Exn: 2309 PN: 2

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 2

Title: Modeling and Experimental Characterization of IgE Receptor Signaling Year 2'

**Southwestern New Mexico SME**

AN: 5

Best Project in Engineering and/or Earth Sciences Categories

GN 1

**Senior Division****Recognition**

Cash Award

**Chali A Simpson**

Female Grd: 12 Cat: SEARTH Exn: 1903 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity: The Genesis'

**Stockholm Junior Water Prize Water Environment Federation**

AN: 19

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

GN 1

**Senior Division****Recognition**

Certificate-Nomination

**Anna M Abeyta**

Female Grd: 9 Cat: SENVIR Exn: 2101 PN: 1

Los Alamos High School

Teacher/Sponsor: Eva Abeyta 1

Title: Pharmaceutical Effects on Local Watersheds'

**Cameron D. Zielinski**

Male Grd: 11 Cat: SENVIR Exn: 2113 PN: 2

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: Do Mine Spills Really Destroy the Environment? Phase II'

**Sunny H Nez**

Female Grd: 6 Cat: SPLANT Exn: 2607 PN: 3

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Lingering Heavy Metal and Metalloid Toxins in the Allium cepa Root Tip and Bulb from the Animas and '

**Cameron A Gonzales**

Male Grd: 9 Cat: SEARTH Exn: 1901 PN: 4

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Filtration, Naturally: Nanoparticles and Biopolymers as Filtration Agents'

**Michael O Aslam**

Male Grd: 9 Cat: SMATH Exn: 2201 PN: 5

Los Alamos High School

Teacher/Sponsor: Tariq Aslam 1

Title: Can We Stop a Tsunami?'

**U.S. Air Force**

AN: 15

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

GN 1

**Junior or Senior Division****Recognition**

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

**Makayla R. Gates**

Female Grd: 9 Cat: SPLANT Exn: 2604 PN: 1

Valencia High School

Teacher/Sponsor: Holly Ice-Gates 1

Title: A Shroom With A View: Biofabricating Mycodomes for Disaster Relief'

**Lydia K Barron**

Female Grd: 9 Cat: SPHY Exn: 2501 PN: 2

Dora High School

Teacher/Sponsor: Laura Wilbanks 1

Title: Terraforming Mars: Can its soil support plant life?'

**Zachary E Goodrich**

Male Grd: 11 Cat: SPHY Exn: 2503 PN: 3

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Theoretical Asteroid Repulsion'

**Sophia - Li**

Female Grd: 11 Cat: SENG R Exn: 2010 PN: 4

Los Alamos High School

Teacher/Sponsor: Yifeng Zhang 1

Title: Nuclear Thermal Rockets: Mars and Beyond'

**U.S. Metric Association Award**

AN: 16

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

GN 1

**Junior or Senior Division****Recognition**

Certificate

**Zachary E Goodrich**

Male Grd: 11 Cat: SPHY Exn: 2503 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Theoretical Asteroid Repulsion'

**Chali A Simpson**

Female Grd: 12 Cat: SEARTH Exn: 1903 PN: 2

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity: The Genesis'

**Yale Science & Engineering Association Award**

AN: 17

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

GN 1

**Senior Division****Recognition**

Certificate

**Zachary E Goodrich**

Male Grd: 11 Cat: SPHY Exn: 2503 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Theoretical Asteroid Repulsion'

**Sanjiv - Harikumar**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 2

Las Cruces High School

Teacher/Sponsor: James McDowell 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'

**Senior Category: Animal Science**

AN: 68

Top of Category

GN 1

**Senior Division****Honorable Mention**

Certificate and Ribbon

**Natalie D Rychener**

Female Grd: 9 Cat: SANI Exn: 1507 PN: 4

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Effects of Nutrients on Cell Growth and Reproduction'

**KRYSTA M BARAJAS**

Female Grd: 9 Cat: SANI Exn: 1503 PN: 5

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: WHICH HAY GIVES THE MOST ENERGY TO HORSES?'

**Ariana J. Baca**

Female Grd: 11 Cat: SANI Exn: 1502 PN: 6

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Re-Gen: Natural vs. synthetic Antibiotic on Cellular Regeneration/Metabolism of *Dugesia tigrina*'**Third Place**

\*\*TEAM: MEMBERS SPLIT \$50, medal, and certificate

**T# 1 Arianna M Abad**

Female Grd: 12 Cat: SANI Exn: 1501 PN: 3

Rio Rancho High School

Teacher/Sponsor: Lynn Perry 1

Title: Cantareus Aspersus and Calcium'

**T# 2 Megan G Agena**

Female Grd: 12 Cat: SANI Exn: 1501 PN: 3

Rio Rancho High School

Teacher/Sponsor: Lynn Perry 2

Title: Cantareus Aspersus and Calcium'

**Second Place**

\*\*TEAM: MEMBERS SPLIT \$100, medal, and certificate

**T# 1 Kasandra D Velarde**

Female Grd: 12 Cat: SANI Exn: 1508 PN: 2

Roy Municipal School

Teacher/Sponsor: Loretta m Overberger 1

Title: Lactate Protein My Whey!'

**T# 2 Joseph T Overberger**

Male Grd: 12 Cat: SANI Exn: 1508 PN: 2

Roy Municipal School

Teacher/Sponsor: Loretta m Overberger 2

Title: Lactate Protein My Whey!'

**First Place**

\*\*TEAM: MEMBERS SPLIT \$150, Medal, and Certificate

**T# 1 Jen Marie B Phifer**

Female Grd: 11 Cat: SANI Exn: 1506 PN: 1

Los Lunas High School

Teacher/Sponsor: Lynne A Mozer 1

Title: Diamonds Are Forever - But Diamondbacks Might Not Be'

**T# 2 Zach J Collins**

Male Grd: 11 Cat: SANI Exn: 1506 PN: 1

Los Lunas High School

Teacher/Sponsor: Lynne A Mozer 2

Title: Diamonds Are Forever - But Diamondbacks Might Not Be'

**Senior Category: Behavioral and Social Sciences**

AN: 71

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and certificate

**Erick - Martinez**

Male Grd: 11 Cat: SBEH Exn: 1605 PN: 4

Santa Teresa High School

Teacher/Sponsor: alicia stevens 1

Title: The Pareidolia Effect: Are males or females more susceptible?'

**Leilani M Lucero**

Female Grd: 11 Cat: SBEH Exn: 1604 PN: 5

Amy Biehl Charter Highschool

Teacher/Sponsor: Michael C Lynam 1

Title: What's Your Sign?'

**Third Place**

\*\*TEAM: MEMBERS SPLIT \$50, medal, certificate

**T# 1 Sydney E Gilbert**

Female Grd: 10 Cat: SBEH Exn: 1603 PN: 3

Piedra Vista High School

Teacher/Sponsor: Gail Silva 1

Title: Baroquen Brain'

**T# 2 John C Padgett**

Male Grd: 10 Cat: SBEH Exn: 1603 PN: 3

Piedra Vista High School

Teacher/Sponsor: Gail Silva 2

Title: Baroquen Brain'

**Second Place**

\$100, medal, and certificate

**Samantha D DeWees-Keller**

Female Grd: 12 Cat: SBEH Exn: 1602 PN: 2

Piedra Vista High School

Teacher/Sponsor: Gail Silva 1

Title: Perception vs. Performance: Effects of Stress Perception on Academic Performance'

**First Place**

\$150, medal, an certificate

**Hiba I Muhyi**

Female Grd: 12 Cat: SBEH Exn: 1606 PN: 1

Arrowhead Park Early College High School

Teacher/Sponsor: Rajaa Shindi 1

Title: RoboGlove: A Design for Engagement and Hedonic Motivation with Visual-Spatial for Deaf and Hearing '

**Senior Category: Chemistry**

AN: 73

Top of Category

GN: 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Paris C Reuel**

Male Grd: 11 Cat: SCHEM Exn: 1812 PN: 4

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez 1

Title: Sweet Strength: The Retarder of Cement'

**Zachary R Ginn**

Female Grd: 10 Cat: SCHEM Exn: 1804 PN: 5

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Dyechondria: Potential Disease Diagnosis Assay via ATP Sensitive Dyes and Mitochondrial Function'

**Third Place**

\$50, medal and certificate

**Noah B Manz**

Male Grd: 12 Cat: SCHEM Exn: 1810 PN: 3

Farmington High School

Teacher/Sponsor: Robert L Watson 1

Title: A Low Pressure Graphene Epitaxy On Cu From Activated Solid Amorphous Carbon'

**Second Place**

\$100, medal, and certificate

**Lea M Godret-Miertschin**

Female Grd: 12 Cat: SCHEM Exn: 1805 PN: 2

Sandia High School

Teacher/Sponsor: Valerie Veroz 1

Title: Investigating Effects of Vegetable Oil Saturation in Extraction of Quinine from cinchona succirubra'

**First Place**

\$150, medal, certificate

**Sanjiv - Harikumar**

Male Grd: 11 Cat: SCHEM Exn: 1807 PN: 1

Las Cruces High School

Teacher/Sponsor: James McDowell 1

Title: Magnetic Fe<sub>2</sub>O<sub>3</sub>-AuNPs for the Photothermal Dissolution of Alzheimer Protein Aggregates'

**Senior Category: Computer Science**

AN: 74

Top of Category

**Senior Division**

GN 1

**Third Place**

\$50, Medal, and Certificate

**Rebecca - Pattichis**

Female Grd: 11 Cat: SCOMP Exn: 1752 PN: 3

AIMS@UNM

Teacher/Sponsor: Michael J Harris 1

Title: Texture Analysis on Cerebrospinal Fluid (CSF) to Predict the Progression of Multiple Sclerosis'

**Second Place**

\$100, Medal, and Certificate

**Tony C Yan**

Male Grd: 10 Cat: SCOMP Exn: 1753 PN: 2

Portales High School

Teacher/Sponsor: Laura J DeBusk 1

Title: Compiling A Custom Android OS'

**First Place**

\$150, Medal, and Certificate

**Mustafa I Muhyi**

Male Grd: 10 Cat: SCOMP Exn: 1751 PN: 1

Arrowhead Park Early College High School

Teacher/Sponsor: Rajaa Shindi 1

Title: EZ-Sleep: A Low Cost Portable Device for Detecting Obstructive Sleep Apnea--with Computational Machi'

**Senior Category: Earth Sciences**

AN: 75

Top of Category

**Senior Division**

GN 1

**Honorable Mention**

Ribbon and Certificate

**Bristan D Lockett**

Male Grd: 9 Cat: SEARTH Exn: 1902 PN: 4

Silver High School

Teacher/Sponsor: James A Broyles 1

Title: What is the Hardness of minerals?'

**Second Place**

\$100, Medal, and Certificate

**Cameron A Gonzales**

Male Grd: 9 Cat: SEARTH Exn: 1901 PN: 2

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Filtration, Naturally: Nanoparticles and Biopolymers as Filtration Agents'

**First Place**

\$150, Medal, and Certificate

**Chali A Simpson**

Female Grd: 12 Cat: SEARTH Exn: 1903 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity: The Genesis'

**Senior Category: Energy and Transportation**

AN: 77

Top of Category

GN: 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Ryan T Sciorilli**

Female Grd: 9 Cat: STRAN Exn: 2705 PN: 4

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler 1

Title: Dust Resistant Solar Panels to Be Implemented on the 2020 Mars Rover'

**Ryan E Pena**

Male Grd: 10 Cat: STRAN Exn: 2704 PN: 5

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Start Your Engines'

**Third Place**

\$50, Medal and Certificate

**Geena L Tsoisie**

Female Grd: 10 Cat: STRAN Exn: 2707 PN: 3

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Aero-Car'

**Second Place**

\$100, Medal, and Certificate

**Nizhoni L Tallas**

Female Grd: 12 Cat: STRAN Exn: 2706 PN: 2

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Thin-Panel, Cylinder-Arrayed, Solar Water Heater '

**First Place**

\$150, Medal, and Certificate

**Adittyo - Paul**

Male Grd: 9 Cat: STRAN Exn: 2703 PN: 1

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler 1

Title: Generating electricity using micro-turbines from a forward moving automobile'



**Senior Category: Engineering**

AN: 78

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Lillian L Sandoval**

Female Grd: 11 Cat: SENGR Exn: 2014 PN: 4

AIMS@UNM

Teacher/Sponsor: Michael J Harris 1

Title: What are the thermal capabilities of igneous rock, mud, and clay in amalgamate form?'

**Spenser J Millburn**

Female Grd: 11 Cat: SENGR Exn: 2012 PN: 5

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez 1

Title: Earthquake Neutralization'

**Third Place**

\$50, Medal, and Certificate

**Dillon T. Wood**

Male Grd: 12 Cat: SENGR Exn: 2017 PN: 3

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Oxy-Hydrogen Fuel Efficiency'

**Second Place**

\$100, Medal, and Certificate

**Skyler S Hughes**

Male Grd: 11 Cat: SENGR Exn: 2007 PN: 2

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler 1

Title: Utilization of the Spidron System for Generating Force Absorbing Structures'

**First Place**

\$150, Medal, and Certificate

**Sophia - Li**

Female Grd: 11 Cat: SENGR Exn: 2010 PN: 1

Los Alamos High School

Teacher/Sponsor: Yifeng Zhang 1

Title: Nuclear Thermal Rockets: Mars and Beyond'

**Senior Category: Environmental Sciences**

AN: 79

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Tyra H Nicolay**

Female Grd: 12 Cat: SENVIR Exn: 2108 PN: 4

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Quantitative Data Based Research on the Correlation between Ambient Air  
Pollutants and Health'**Phoebe R Rychener**

Female Grd: 11 Cat: SENVIR Exn: 2111 PN: 5

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Biogas Generator: Cheap and Renewable Energy'

**Cameron D. Zielinski**

Male Grd: 11 Cat: SENVIR Exn: 2113 PN: 6

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: Do Mine Spills Really Destroy the Environment? Phase II'

**Third Place**

\$50, Medal, and Certificate

**Andrea L Chin-Lopez**

Female Grd: 12 Cat: SENVIR Exn: 2103 PN: 3

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Crabsorption: Absorption, Neutralization & Diffusion of Pharma via 1mm/1um  
Particulate Chitosan'**Second Place**

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

**T# 1 David W Ogden**

Female Grd: 12 Cat: SENVIR Exn: 2109 PN: 2

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 1

Title: Pesticide Removal with Mushroom Compost'

**T# 2 Tony J Sapradi**

Female Grd: 12 Cat: SENVIR Exn: 2109 PN: 2

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 2

Title: Pesticide Removal with Mushroom Compost'

**First Place**

\$150, Medal, and Certificate

**Lillian K Petersen**

Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 1

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: America's Farming Future: The Impact of Climate Change on Crop Yields'

**Senior Category: Mathematical Sciences**

AN: 81

Top of Category

GN 1

**Senior Division****Second Place**

\$100, Medal, and Certificate

**Michael O Aslam**

Male Grd: 9 Cat: SMATH Exn: 2201 PN: 2

Los Alamos High School

Teacher/Sponsor: Tariq Aslam 1

Title: Can We Stop a Tsunami?'

**First Place**

\$150, Medal, and Certificate

**AnaMaria - Perez**

Female Grd: 9 Cat: SMATH Exn: 2202 PN: 1

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler 1

Title: Decomposing Fractions into the Sum of Distinct Unit Fractions and the Correlating Patterns'

**Senior Category: Medicine and Health Science**

AN: 82

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Delaney E Galligan**

Female Grd: 10 Cat: SMED-H Exn: 2304 PN: 4

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: MitoSensor: Conductivity/Resistance Sensor for Cellular Activity and Dysfunction'

**Third Place**

\*\*TEAM: MEMBERS SPLIT \$50, Medal, and Certificate

**T# 1 Priyanka V Velappan**

Female Grd: 11 Cat: SMED-H Exn: 2309 PN: 3

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 1

Title: Modeling and Experimental Characterization of IgE Receptor Signaling Year 2'

**T# 2 Alex Ionkov**

Male Grd: 11 Cat: SMED-H Exn: 2309 PN: 3

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 2

Title: Modeling and Experimental Characterization of IgE Receptor Signaling Year 2'

**Second Place**

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

**T# 1 Jamie N LeVie**

Female Grd: 12 Cat: SMED-H Exn: 2306 PN: 2

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 1

Title: Interleukin-10 and A $\beta$  Interaction in a Computational Biology Model'**T# 2 Maribel Garcia**

Female Grd: 12 Cat: SMED-H Exn: 2306 PN: 2

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 2

Title: Interleukin-10 and A $\beta$  Interaction in a Computational Biology Model'**First Place**

\$150, Medal, and Certificate

**Karishma S Patel**

Female Grd: 12 Cat: SMED-H Exn: 2307 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Slip Sliding Away: The Sequel'

**Senior Category: Microbiology**

AN: 83

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Devin P Munson**

Female Grd: 10 Cat: SMICRO Exn: 2404 PN: 4

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Breaking Biofilm, Part 2'

**Honorable Mention**

Ribbon and Certificate

**Mackenzie E Mills**

Female Grd: 11 Cat: SMICRO Exn: 2403 PN: 5

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: Comparing the Effects of the Components of Fertilizer on Algal Growth and Illuminance'

**Third Place**

\$50, Medal, and Certificate

**Ashley N Martinez**

Female Grd: 10 Cat: SMICRO Exn: 2402 PN: 3

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Sweet Celltopia: Diabetic Counteragents Impact on Cell Viability &amp; Function'

**Second Place**

\$100, Medal, and Certificate

**Sierra A Ferguson**

Female Grd: 10 Cat: SMICRO Exn: 2401 PN: 2

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Mito-Critters: Conductivity/Resistance Measurement of Cellular Mitochondrial Function/Dysfunction'

**First Place**

\*\*TEAM: MEMBERS SPLIT \$150, Medal, and Certificate

**T# 1 Richard J Romero**

Male Grd: 12 Cat: SMICRO Exn: 2406 PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: A Comparative Study of the Antimicrobial Effects of Transition Metal Nanoparticles'

**T# 2 Fernando Guerrero**

Male Grd: 12 Cat: SMICRO Exn: 2406 PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 2

Title: A Comparative Study of the Antimicrobial Effects of Transition Metal Nanoparticles'

**Senior Category: Physics and Astronomy**

AN: 84

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Richard J Dargan**

Male Grd: 12 Cat: SPHY Exn: 2502

PN: 4

Albuquerque Academy

Teacher/Sponsor: Kevin W Fowler

1

Title: Optimizing Satellite Constellation Configurations for Global Satellite Navigation Systems'

**Zachary E Goodrich**

Male Grd: 11 Cat: SPHY Exn: 2503

PN: 5

Grants High School

Teacher/Sponsor: Shelby Alexander

1

Title: Theoretical Asteroid Repulsion'

**Third Place**

\$50, Medal, and Certificate

**Elijah - Pelofske**

Male Grd: 10 Cat: SPHY Exn: 2506

PN: 3

Los Alamos High School

Teacher/Sponsor: Katie Tauxe

1

Title: Neutron Radiation Generator'

**Second Place**

\$100, Medal, and Certificate

**Charles S Strauss**

Male Grd: 9 Cat: SPHY Exn: 2509

PN: 2

Los Alamos High School

Teacher/Sponsor: Charlie Strauss

1

Title: Cloudy with a Chance of Muons?'

**First Place**

\$150, Medal, and Certificate

**Amanda R Livingston**

Female Grd: 12 Cat: SPHY Exn: 2505

PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander

1

Title: Ion Propulsion'

**Senior Category: Plant Sciences**

AN: 85

Top of Category

GN 1

**Senior Division****Honorable Mention**

Ribbon and Certificate

**Mattea J Floyd**

Female Grd: 9 Cat: SPLANT Exn: 2602 PN: 4

Rio Grande Enrichment Studies & Home  
School

Teacher/Sponsor: Shannon Hoskovec 1

Title: The Effect of Rabbit Manure on Plants'

**Third Place**

\$50, Medal and Certificate

**Makayla R. Gates**

Female Grd: 9 Cat: SPLANT Exn: 2604 PN: 3

Valencia High School

Teacher/Sponsor: Holly Ice-Gates 1

Title: A Shroom With A View: Biofabricating Mycodomes for Disaster Relief'

**Second Place**

\$150, Medal and Certificate

**Amaya P Coblentz**

Female Grd: 9 Cat: SPLANT Exn: 2601 PN: 2

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: The Photobiology of Lichen Revisited: The Chlorophyll Connection'

**First Place**

\$150, Medal and Certificate

**Sunny H Nez**

Female Grd: 6 Cat: SPLANT Exn: 2607 PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Lingering Heavy Metal and Metalloid Toxins in the Allium cepa Root Tip and Bulb  
from the Animas and '

**Senior Division Life Sciences Grand Award**

AN: 55

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**

GN 1

**Excellence**

**\*\*TEAM: EACH MEMBER RECEIVES** 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.

- T# 1 Richard J Romero** Male Grd: 12 Cat: SMICRO Exn: 2406 PN: 1  
 Rio Rancho High School Teacher/Sponsor: Jennifer Miyashiro 1  
 Title: A Comparative Study of the Antimicrobial Effects of Transition Metal Nanoparticles'
- T# 2 Fernando Guerrero** Male Grd: 12 Cat: SMICRO Exn: 2406 PN: 1  
 Rio Rancho High School Teacher/Sponsor: Jennifer Miyashiro 2  
 Title: A Comparative Study of the Antimicrobial Effects of Transition Metal Nanoparticles'
- Sunny H Nez** Female Grd: 6 Cat: SPLANT Exn: 2607 PN: 2  
 Navajo Preparatory School Inc Teacher/Sponsor: Yolanda Flores 1  
 Title: Lingering Heavy Metal and Metalloid Toxins in the Allium cepa Root Tip and Bulb from the Animas and '

**Senior Division Physical Sciences Grand Award**

AN: 57

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**

GN 1

**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.

- Lillian K Petersen** Female Grd: 9 Cat: SENVIR Exn: 2110 PN: 1  
 Los Alamos High School Teacher/Sponsor: Dawn Brown 1  
 Title: America's Farming Future: The Impact of Climate Change on Crop Yields'
- AnaMaria - Perez** Female Grd: 9 Cat: SMATH Exn: 2202 PN: 2  
 Albuquerque Academy Teacher/Sponsor: Kevin W Fowler 1  
 Title: Decomposing Fractions into the Sum of Distinct Unit Fractions and the Correlating Patterns'
- Sophia - Li** Female Grd: 11 Cat: SENGR Exn: 2010 PN: 3  
 Los Alamos High School Teacher/Sponsor: Yifeng Zhang 1  
 Title: Nuclear Thermal Rockets: Mars and Beyond'