

Scientific Paper Competition

AN: 67

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

GN: 2

Senior Division**Honorable Mention****Edward - Park**

Male Grd: 12 Cat: SENVIR Exn: 2106 PN: 4

Las Cruces High School

Teacher/Sponsor: Young Ho Park 1

Title: Cheap solution to removal of uranium from contaminated groundwater by functionalized clay pellets'

Third Place

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

Karishma S Patel

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

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Oil and Bacteria: Slip Sliding Away'

Second Place

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

: Samantha Multari

Special Winner PN: 2

St. Pius X High School

Can Seaweed Save the Coral? Part II

First Place

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

Rusty W Ludwigen

Male Grd: 9 Cat: SMED-H Exn: 2304 PN: 1

Early College Academy

Teacher/Sponsor: Mark Walker 1

Title: Passive Reduction of Involuntary Arm/Hand Tremors: Phase III'

Scientific Paper Competition, AVS Science & Technology Awards

AN: 70

Scientific Paper Competition

GN 2

Senior Division**Second Place**

\$100 Cash Award

Rusty W Ludwigsen

Male Grd: 9 Cat: SMED-H Exn: 2304 PN: 2

Early College Academy

Teacher/Sponsor: Mark Walker 1

Title: Passive Reduction of Involuntary Arm/Hand Tremors: Phase III'

First Place

\$125 Cash Award

Karishma S Patel

Female Grd: 11 Cat: SMED-H Exn: PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Oil and Bacteria: Slip Sliding Away'

Teacher Award

\$150 each of 1st place winner

Shelby Alexander(Teacher)

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

Grants High School

Student: Karishma S Patel 1

Title: Oil and Bacteria: Slip Sliding Away'

Teacher Award

\$125 to teacher of first place winner

Mark Walker(Teacher)

Male Grd: 9 Cat: SMED-H Exn: 2304 PN: 4

Early College Academy

Student: Rusty W Ludwigsen 1

Title: Passive Reduction of Involuntary Arm/Hand Tremors: Phase III'

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.

GN 3

Senior Division**First Place**

\$200

Alisha F Nakai

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

Newcomb High School

Teacher/Sponsor: Ma Liza F Monserate 1

Title: Water Analysis:Colorimetric Study of Impurities in Water Samples FRom 3

Communities in Newcomb Area'

American Meteorological Society

AN: 1

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

GN: 1

Senior Division**Recognition**

Certificate

Noah B Manz

Male Grd: 11 Cat: SCHEM Exn: 1806 PN: 1

Farmington High School

Teacher/Sponsor: Robert L Watson 1

Title: Constituent Disintegration of CO2 and DMF Sonic Exfoliation of Graphite Oxide for Graphene Synthesis'

Erika - Yellowhair

Female Grd: 11 Cat: SENVIR Exn: 2110 PN: 2

Kirtland Central High School

Teacher/Sponsor: Ann Aboyme 1

Title: The San Juan River After the Animas River Toxic Waste Spill'

American Nuclear Society, Trinity Section

AN: 59

For best project related to nuclear science or nuclear engineering.

GN: 2

Senior Division**Recognition**

\$75 Cash Award

Edward - Park

Male Grd: 12 Cat: SENVIR Exn: 2106 PN: 1

Las Cruces High School

Teacher/Sponsor: Young Ho Park 1

Title: Cheap solution to removal of uranium from contaminated groundwater by functionalized clay pellets'

American Psychological Association

AN: 2

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

GN: 1

Junior or Senior Division**Recognition**

Certificate

Sara S Manshad

Female Grd: 12 Cat: SBEH Exn: 1607 PN: 2

Arrowhead Park Early College High School

Teacher/Sponsor: Muhanad S Manshad 1

Title: Digitizing Manipulatives for the Blind and Visually Impaired Phase 3'

American Vacuum Society, New Mexico Chapter

AN: 36

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

GN 1

Senior Division**Second Place**

\$200 Cash Award

Tristen T Montenegro

Female Grd: 10 Cat: SPHY Exn: 2509 PN: 2

Silver High School

Teacher/Sponsor: todd pugmire 1

Title: Deflate Gate Futbol'

First Place

\$300 Cash Prize

Amit G Bala

Male Grd: 12 Cat: STRAN Exn: 2701 PN: 1

V. Sue Cleveland HS

Teacher/Sponsor: Eileen Romano 1

Title: The Viability of the Zebra Cooling Effect '

Rev. Charles and Mary Ashmore Memorial Awards

AN: 65

Rev. Charles and Mary Ashmore Memorial Award

In memory of Rev. Charles and Mary Ashmore Memorial Awards

GN 1

Junior or Senior Division**Recognition**

\$50 Cash Award

Taviana F Keeney

Female Grd: 12 Cat: SBEH Exn: 1605 PN: 1

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 1

Title: Is Cognitive Style a Predictor for Success in High School Mathematics? '

Nathan R Paul

Female Grd: 11 Cat: SBEH Exn: 1608 PN: 2

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton 1

Title: Eyewitness Testimony: Help or Hindrance?'

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

Second Place

\$150 Cash Prize

Lea M Godret-Miertschin

Female Grd: 11 Cat: SCHEM Exn: 1803 PN: 2

Sandia High School

Teacher/Sponsor: David N Miertschin 1

Title: Investigating Rates of Condensation for Aluminum and Acrylic'

First Place

**TEAM: MEMBERS SPLIT \$200 Cash Award

T# 1 Fernando - Guerrero

Male Grd: 11 Cat: STRAN Exn: 2702 PN: 1

Rio Rancho High School

Teacher/Sponsor: Denny J Marquez 1

Title: Viability of Hydrophobic Coatings to Reduce Drag'

T# 2 Isaac - Buck

Male Grd: 11 Cat: STRAN Exn: 2702 PN: 1

Rio Rancho High School

Teacher/Sponsor: Denny J Marquez 2

Title: Viability of Hydrophobic Coatings to Reduce Drag'

ASM Materials Education Foundation

AN: 6

Best Materials Engineering Project

Junior or Senior Division

GN 1

Recognition

Certificate

Noah B Manz

Male Grd: 11 Cat: SCHEM Exn: 1806 PN: 2

Farmington High School

Teacher/Sponsor: Robert L Watson 1

Title: Constituent Disintegration of CO2 and DMF Sonic Exfoliation of Graphite Oxide for Graphene Synthesis'

Association for Women Geoscientists

AN: 7

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

Junior or Senior Division

GN 1

Recognition

Certificate

Delaney E Galligan

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

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: OxiSeeds Biosynthetic Production of Soil/Seed Packects for Drought, Erosion & Pollution Remediation'

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.

Lillian R Martinez Female Grd: 11 Cat: STRAN Exn: 2703 PN: 1

Taos Academy Charter School Teacher/Sponsor: Laura J. Tenorio 1

Title: Natural Solar: Production of Biofriendly Naturally Produced Solar Panels'

Chali A Simpson Female Grd: 11 Cat: SPLANT Exn: 2608 PN: 2

Grants High School Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity II'

Ball Aerospace and Technologies Corp.

AN: 64

To recognize emerging talent in the development and execution of experiments, mathematical models or engineering designs related to applications of light or heat.

GN 2

Senior Division**Third Place**

\$50 Cash Award

Codi L Flores Female Grd: 9 Cat: SPHY Exn: 2506 PN: 3

Kirtland Central High School Teacher/Sponsor: Ann Aboyme 1

Title: Does the Temperature of a Magnet Impact its Magnetism'

Second Place

\$150 Cash Award

Theodore M Petersen Male Grd: 12 Cat: SMATH Exn: 2203 PN: 2

Los Alamos High School Teacher/Sponsor: Dawn Brown 1

Title: Predictable or Chaotic? Orbits versus Weather'

First Place

\$300 Cash Award

Elijah A. Pelofske Male Grd: 9 Cat: SPHY Exn: 2510 PN: 1

Los Alamos High School Teacher/Sponsor: Katie Tauxe 1

Title: Cryogenic Magnetism'

Clay T. Smith Award

AN: 21

Project with the greatest potential for immediate practical application.

GN 1

Recognition

**TEAM: EACH MEMBER RECEIVES Plaque

T# 1 **Stacy L Swope**

Female Grd: 11 Cat: STRAN Exn: 2705 PN: 1

Deming High School

Teacher/Sponsor: Susan Swope 1

Title: Now you see it, Now you don't '

T# 2 **Hannah Stockman**

Female Grd: 11 Cat: STRAN Exn: 2705 PN: 1

Deming High School

Teacher/Sponsor: Susan Swope 2

Title: Now you see it, Now you don't '

David K. Shortess Award

AN: 22

Project exhibiting outstanding quality in logic and clarity of presentation.

GN 1

Junior or Senior Division**Recognition**

Plaque

John R Keeney

Male Grd: 12 Cat: SMATH Exn: 2202 PN: 1

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 1

Title: Proving Properties of Sudoku Analytically'

"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

Edward - Park

Male Grd: 12 Cat: SENVIR Exn: 2106 PN: 1

Las Cruces High School

Teacher/Sponsor: Young Ho Park 1

Title: Cheap solution to removal of uranium from contaminated groundwater by functionalized clay pellets'

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: 11 Cat: SENGRA Exn: 2012 PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Using an Isolated Gain System to Heat a Traditional Home'

Highway Employees Assoc. of the NM Department of Transportation

AN: 29

For excellence in projects related to transportation infrastructure, programs and safety.

GN 1

Senior Division**Second Place******TEAM: MEMBERS SPLIT \$25 Cash Award**

| | | | |
|------|--|------------------------------------|-------|
| T# 1 | Richard J Dargan | Male Grd: 11 Cat: SPHY Exn: 2503 | PN: 2 |
| | Albuquerque Academy | Teacher/Sponsor: Jim Mims | 1 |
| | Title: Improving Global Positioning Systems Through Satellite Selection' | | |
| T# 2 | Carl R Cherne | Female Grd: 11 Cat: SPHY Exn: 2503 | PN: 2 |
| | Albuquerque Academy | Teacher/Sponsor: Jim Mims | 2 |
| | Title: Improving Global Positioning Systems Through Satellite Selection' | | |

First Place****TEAM: MEMBERS SPLIT \$50 cash award**

| | | | |
|------|--|-----------------------------------|-------|
| T# 1 | Zachary S Torma | Male Grd: 12 Cat: STRAN Exn: 2707 | PN: 1 |
| | V. Sue Cleveland HS | Teacher/Sponsor: Angelica E Lopez | 1 |
| | Title: Pavement Problems: Deep Freeze' | | |
| T# 2 | Mathew J McBrayer | Male Grd: 12 Cat: STRAN Exn: 2707 | PN: 1 |
| | V. Sue Cleveland HS | Teacher/Sponsor: Angelica E Lopez | 2 |
| | Title: Pavement Problems: Deep Freeze' | | |

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

| | | | |
|--|---|-------------------------------------|-------|
| | Ryan J Cooper | Male Grd: 12 Cat: SCOMP Exn: 1751 | PN: 1 |
| | The Ask Academy | Teacher/Sponsor: Nita Cooper | 1 |
| | Title: Geospatial-Temporal Semantic Graph Search Template Generation via Data Mining' | | |
| | Rebecca - Pattichis | Female Grd: 10 Cat: SCOMP Exn: 1756 | PN: 2 |
| | Albq. Institute for Math and Science | Teacher/Sponsor: Philip K Watje | 1 |
| | Title: Predicting the Progression of Multiple Sclerosis Using Image Features' | | |

Theresa G. Johnson Memorial Award

AN: 63

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

GN 1

Junior or Senior Division**Recognition**

\$100 Cash Award

| | | | |
|--|--|-----------------------------------|-------|
| | Zachary E Goodrich | Male Grd: 10 Cat: SPHY Exn: 2507 | PN: 2 |
| | Grants High School | Teacher/Sponsor: Shelby Alexander | 1 |
| | Title: Asteroid Belt Orbital Movements ' | | |

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

AN: 62

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

GN 1

Junior or Senior Division**Recognition**

\$50 Cash Award

Sara S Manshad

Female Grd: 12 Cat: SBEH Exn: 1607 PN: 1

Arrowhead Park Early College High School

Teacher/Sponsor: Muhanad S Manshad 1

Title: Digitizing Manipulatives for the Blind and Visually Impaired Phase 3'

First Place****TEAM: MEMBERS SPLIT \$50 Cash Award****T# 1 Joana - Fernandez**

Female Grd: 12 Cat: SBEH Exn: 1604 PN: 2

Rio Rancho High School

Teacher/Sponsor: scotia kurowski 1

Title: Is There an Association between Gender and Memory Processing'

T# 2 Jordan R Montoya

Female Grd: 12 Cat: SBEH Exn: 1604 PN: 2

Rio Rancho High School

Teacher/Sponsor: scotia kurowski 2

Title: Is There an Association between Gender and Memory Processing'

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

Xander O Jones

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

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Fractals'

Theodore M Petersen

Male Grd: 12 Cat: SMATH Exn: 2203 PN: 2

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: Predictable or Chaotic? Orbits versus Weather'

NASA Earth System Science Award

AN: 11

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

Junior or Senior Division

GN 1

Recognition

**TEAM: MEMBERS SPLIT Certificate

- T# 1 **Kinsey R Warnock** Female Grd: 12 Cat: SENVIR Exn: 2108 PN: 1
 Rio Rancho High School Teacher/Sponsor: Robert Keeney 1
 Title: Pollution Problems Pertaining to Pharmaceuticals and Personal Care Products'
- T# 2 **Camaren J Ly** Female Grd: 12 Cat: SENVIR Exn: 2108 PN: 1
 Rio Rancho High School Teacher/Sponsor: Robert Keeney 2
 Title: Pollution Problems Pertaining to Pharmaceuticals and Personal Care Products'

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.

GN 1

Senior Division**Recognition**

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

William R. Sidley-Parker

Male Grd: 12 Cat: SCOMP Exn: 1757 PN: 1

Los Alamos High School

Teacher/Sponsor: Cornelia S Parker 1

Title: Adding Glial Cell Communication to Artificial Neural Network Simulations'

Chali A Simpson

Female Grd: 11 Cat: SPLANT Exn: 2608 PN: 2

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity II'

Laura K Chen

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

AIMES@UNM

Teacher/Sponsor: Michael J Harris 1

Title: Phase II: The Effects of Various Concentrations of Ag Nanoparticles on Gram-Positive Microorganisms'

Mariela Cisco

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

AIMES@UNM

Teacher/Sponsor: Michael J Harris 2

Title: Phase II: The Effects of Various Concentrations of Ag Nanoparticles on Gram-Positive Microorganisms'

Laura K Chen

Female Grd: 10 Cat: SMICRO Exn: 2402 PN: 4

AIMES@UNM

Teacher/Sponsor: Michael J Harris 1

Title: Phase II: The Effects of Various Concentrations of Ag Nanoparticles on Gram-Positive Microorganisms'

Mariela Cisco

Female Grd: 10 Cat: SMICRO Exn: 2402 PN: 4

AIMES@UNM

Teacher/Sponsor: Michael J Harris 2

Title: Phase II: The Effects of Various Concentrations of Ag Nanoparticles on Gram-Positive Microorganisms'

New Mexicans for Science and Reason (NMSR)

AN: 58

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

GN 1

Junior or Senior Division**Recognition**

\$200 Cash Award and Letter

Edward - Park

Male Grd: 12 Cat: SENVIR Exn: 2106 PN: 2

Las Cruces High School

Teacher/Sponsor: Young Ho Park 1

Title: Cheap solution to removal of uranium from contaminated groundwater by functionalized clay pellets'

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.

GN 1

Senior Division**First Place**

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

Priyanka - Jain

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

La Cueva High School

Teacher/Sponsor: Kimberly Conell 1

Title: Novel use of Enzymes in Silica Mesoporous Protocell to Selectively Target Cancer Cells using Aptamer'

New Mexico Museum of Natural History & Science

AN: 33

Presented to a project in earth and planetary science, life sciences, ecological studies, or computer science.

GN 2

Senior Division**Recognition**

Museum t-shirt, certificate, \$200 check.

Victoria K CrosbyFemale Grd: 11 Cat: SMICRO Exn: PN: 1
2403

Amy Biehl Charter Highschool

Teacher/Sponsor: Beth Saucedo 1

Title: What's in Your Tree? A Morphological and Molecular Survey of the Paracites Found in *Sorex hoyi*.'

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.

GN 1

Junior or Senior Division**Recognition**

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

Sara S Manshad

Female Grd: 12 Cat: SBEH Exn: 1607 PN: 6

Arrowhead Park Early College High School

Teacher/Sponsor: Muhanad S Manshad 1

Title: Digitizing Manipulatives for the Blind and Visually Impaired Phase 3'

Karishma S Patel

Female Grd: 11 Cat: SMED-H Exn: PN: 7

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Oil and Bacteria: Slip Sliding Away'

Lea M Godret-Miertschin

Female Grd: 11 Cat: SCHEM Exn: 1803 PN: 8

Sandia High School

Teacher/Sponsor: David N Miertschin 1

Title: Investigating Rates of Condensation for Aluminum and Acrylic'

Victoria K CrosbyFemale Grd: 11 Cat: SMICRO Exn: PN: 9
2403

Amy Biehl Charter Highschool

Teacher/Sponsor: Beth Saucedo 1

Title: What's in Your Tree? A Morphological and Molecular Survey of the Paracites Found in *Sorex hoyi*.'**Tristen T Montenegro**

Female Grd: 10 Cat: SPHY Exn: 2509 PN: 10

Silver High School

Teacher/Sponsor: todd pugmire 1

Title: Deflate Gate Futbol'

GN 2

Junior or Senior Division**Recognition**

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

Abby R Magdaleno

Female Grd: 9 Cat: SMICRO Exn: 2407 PN: 4

Rio Rancho High School

Teacher/Sponsor: Michael Mascone 1

Title: The Effect of Caffeine on Crickets'

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**

Honorable Mention

Joshua A Fambro

Male Grd: 9 Cat: SENGR Exn: 2006 PN: 4

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Optical Solution: Optical Enhancement for Desalinization and Decontamination of Drinking Water'

Evan S Crockett

Male Grd: 11 Cat: SPHY Exn: 2502 PN: 5

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez 1

Title: Binocular Wide Field of View Satellite Tracking'

Third Place

\$50 Cash Prize

Leniah M Yazzie

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

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Phytochemical Analysis of Navajo Medicinal Plants'

Second Place

\$75.00 Cash Prize

Danielle R Diaz

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

Silver High School

Teacher/Sponsor: todd pugmire 1

Title: Diabetes or Just Dirty Hands?'

First Place

\$100 Cash Prize

Nathan R Paul

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

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton 1

Title: Eyewitness Testimony: Help or Hindrance?'

New Mexico Solar Energy Association

AN: 34

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

GN 2

Senior Division**First Place**

\$75 Cash Prixe

Ryan E Pena

Male Grd: 9 Cat: SENGR Exn: 2009 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: I've Got The Power'

Professional Aerospace Contractors Association

AN: 61

For an outstanding project relevant to aerospace science and engineering.

GN 1

Senior Division**Third Place**

\$300 Cash Award

Lillian R Martinez

Female Grd: 11 Cat: STRAN Exn: 2703 PN: 3

Taos Academy Charter School

Teacher/Sponsor: Laura J. Tenorio

1

Title: Natural Solar: Production of Biofriendly Naturally Produced Solar Panels'

Second Place

**TEAM: MEMBERS SPLIT \$400 Cash Award

T# 1 **Richard J Dargan**

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

Albuquerque Academy

Teacher/Sponsor: Jim Mims

1

Title: Improving Global Positioning Systems Through Satellite Selection'

T# 2 **Carl R Cherne**

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

Albuquerque Academy

Teacher/Sponsor: Jim Mims

2

Title: Improving Global Positioning Systems Through Satellite Selection'

First Place

\$500 Cash Award

Joseph A Coston

Male Grd: 10 Cat: SENGR Exn: 2004 PN: 1

Albq. Institute for Math and Science

Teacher/Sponsor: Philip K Watje

1

Title: Portable Power Packs'

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

Chali A Simpson

Female Grd: 11 Cat: SPLANT Exn: 2608 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander

1

Title: Getting the Dirt on Diversity II'

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

Lillian R Martinez

Female Grd: 11 Cat: STRAN Exn: 2703 PN: 2

Taos Academy Charter School

Teacher/Sponsor: Laura J. Tenorio

1

Title: Natural Solar: Production of Biofriendly Naturally Produced Solar Panels'

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

Richard W Walker

Male Grd: 9 Cat: SCHEM Exn: 1811 PN: 2

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Crustacean Filtration: Removal of Radionuclides using Chitosan Filtration from Different Sources'

First Place

\$400 Cash Award

Tyra H. Nicolay

Female Grd: 11 Cat: SENVIR Exn: 2105 PN: 1

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Field Testing and Water Quality Analysis of the Navajo Nation and San Juan County'

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**

Certificate

Brayan M Salinas

Male Grd: 11 Cat: SCHEM Exn: 1810 PN: 1

Taos Academy Charter School

Teacher/Sponsor: Laura J. Tenorio 1

Title: BioWire: Transfer of metallic nanoparticles into a biological absorption media'

Victoria K Crosby

Female Grd: 11 Cat: SMICRO Exn: 2403 PN: 2

Amy Biehl Charter Highschool

Teacher/Sponsor: Beth Saucedo 1

Title: What's in Your Tree? A Morphological and Molecular Survey of the Paracites Found in Sorex hoyi.'

Southwestern New Mexico SME

AN: 5

Best Project in Engineering and/or Earth Sciences Categories

Senior Division

GN 1

Recognition

\$350 Cash Award

Graham G Monroe

Male Grd: 12 Cat: SENGR Exn: 2008 PN: 1

Rio Grande Enrichment Studies & Home School

Teacher/Sponsor: Marshall Monroe 1

Title: Mothcopter'

Junior Division

GN 2

Excellence

\$150 Cash Prize

Lillian R Martinez

Female Grd: 11 Cat: STRAN Exn: 2703 PN: 1

Taos Academy Charter School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Natural Solar: Production of Biofriendly Naturally Produced Solar Panels'

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

Edward - Park

Male Grd: 12 Cat: SENVIR Exn: 2106 PN: 1

Las Cruces High School

Teacher/Sponsor: Young Ho Park 1

Title: Cheap solution to removal of uranium from contaminated groundwater by functionalized clay pellets'

Tyra H. Nicolay

Female Grd: 11 Cat: SENVIR Exn: 2105 PN: 2

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Field Testing and Water Quality Analysis of the Navajo Nation and San Juan County'

Hayleigh J Drozda

Female Grd: 11 Cat: SENVIR Exn: 2102 PN: 3

Cliff School

Teacher/Sponsor: Katie E. Skaggs 1

Title: EPT of the Gila River'

Kinsey R Warnock

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

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 1

Title: Pollution Problems Pertaining to Pharmaceuticals and Personal Care Products'

Camaren J Ly

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

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 2

Title: Pollution Problems Pertaining to Pharmaceuticals and Personal Care Products'

Sunny H. Nez

Female Grd: 11 Cat: SPLANT Exn: 2606 PN: 5

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Effects of the Animas and San Juan River on the Mitotic Index of Allium cepa Root Tip'

Alisha F Nakai

Female Grd: 11 Cat: SCHEM Exn: 1807 PN: 6

Newcomb High School

Teacher/Sponsor: Ma Liza F Monserate 1

Title: Water Analysis:Colorimetric Study of Impurities in Water Samples From 3 Communities in Newcomb Area'

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.

Nathan I. Christensen Male Grd: 12 Cat: SENGR Exn: 2003 PN: 1

Carlsbad High School Teacher/Sponsor: Deborah Haggerton 1

Title: Robotic Autonomous Navigation'

Graham G Monroe Male Grd: 12 Cat: SENGR Exn: 2008 PN: 2

Rio Grande Enrichment Studies & Home School Teacher/Sponsor: Marshall Monroe 1

Title: Mothcopter'

Richard J Dargan Male Grd: 11 Cat: SPHY Exn: 2503 PN: 3

Albuquerque Academy Teacher/Sponsor: Jim Mims 1

Title: Improving Global Positioning Systems Through Satellite Selection'

Carl R Cherne Female Grd: 11 Cat: SPHY Exn: 2503 PN: 3

Albuquerque Academy Teacher/Sponsor: Jim Mims 2

Title: Improving Global Positioning Systems Through Satellite Selection'

Fernando - Guerrero Male Grd: 11 Cat: STRAN Exn: 2702 PN: 4

Rio Rancho High School Teacher/Sponsor: Denny J Marquez 1

Title: Viability of Hydrophobic Coatings to Reduce Drag'

Isaac - Buck Male Grd: 11 Cat: STRAN Exn: 2702 PN: 4

Rio Rancho High School Teacher/Sponsor: Denny J Marquez 2

Title: Viability of Hydrophobic Coatings to Reduce Drag'

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

Delaney R Gonzales Female Grd: 9 Cat: SPLANT Exn: 2602 PN: 1

Grants High School Teacher/Sponsor: Shelby Alexander 1

Title: The Effects of Sodium Phosphate and Potassium Phosphate on Plant Growth'

Martha Y Rodriguez Female Grd: 9 Cat: SMED-H Exn: 2307 PN: 2

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

Title: Bio Bandage Medicinal Delivery and Protective System using Natural Products'

Yale Science & Engineering Association Award

AN: 17

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

GN 1

Senior Division**Recognition**

Certificate

Noe - Garcia

Male Grd: 11 Cat: SCOMP Exn: 1753 PN: 1

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Microscan 2D/3D Microbe Counting System'

Brayan M Salinas

Male Grd: 11 Cat: SCHEM Exn: 1810 PN: 2

Taos Academy Charter School

Teacher/Sponsor: Laura J. Tenorio 1

Title: BioWire: Transfer of metallic nanoparticles into a biological absorption media'

Senior Category: Animal Science

AN: 68

Top of Category

GN 1

Senior Division**Second Place**

\$100, medal, and certificate

Xavier G Chavez

Male Grd: 10 Cat: SANI Exn: 1502 PN: 2

Capital High School

Teacher/Sponsor: Kelly Phillips 1

Title: Does sound frequency effect reptile eating habits?'

First Place

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

T# 1 Justin Carl M Hontanosas

Male Grd: 11 Cat: SANI Exn: 1503 PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: The Chemoreception Of Crickets'

T# 2 Brandon G Nguyen

Male Grd: 11 Cat: SANI Exn: 1503 PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 2

Title: The Chemoreception Of Crickets'

Senior Category: Behavioral and Social Sciences

AN: 71

Top of Category

GN 1

Senior Division**Honorable Mention**

Ribbon and certificate

Isabella V Davis

Female Grd: 11 Cat: SBEH Exn: 1602 PN: 4

Albq. Institute for Math and Science

Teacher/Sponsor: Reginald Tyler 1

Title: Testing Conceptions of Gender Roles in Elementary School Children'

Nathan R Paul

Female Grd: 11 Cat: SBEH Exn: 1608 PN: 5

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton 1

Title: Eyewitness Testimony: Help or Hindrance?'

Third Place

\$50, medal, certificate

Taviana F Keeney

Female Grd: 12 Cat: SBEH Exn: 1605 PN: 3

Rio Rancho High School

Teacher/Sponsor: Robert Keeney 1

Title: Is Cognitive Style a Predictor for Success in High School Mathematics? '

Second Place

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

T# 1 Joana - Fernandez

Female Grd: 12 Cat: SBEH Exn: 1604 PN: 2

Rio Rancho High School

Teacher/Sponsor: scotia kurowski 1

Title: Is There an Association between Gender and Memory Processing'

T# 2 Jordan R Montoya

Female Grd: 12 Cat: SBEH Exn: 1604 PN: 2

Rio Rancho High School

Teacher/Sponsor: scotia kurowski 2

Title: Is There an Association between Gender and Memory Processing'

First Place

\$150, medal, an certificate

Sara S Manshad

Female Grd: 12 Cat: SBEH Exn: 1607 PN: 1

Arrowhead Park Early College High School

Teacher/Sponsor: Muhanad S Manshad 1

Title: Digitizing Manipulatives for the Blind and Visually Impaired Phase 3'

Senior Category: Chemistry

AN: 73

Top of Category

GN 1

Senior Division**Honorable Mention**

Ribbon and Certificate

Rodrick C Anderson

Male Grd: 10 Cat: SCHEM Exn: 1801 PN: 4

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: From Bitter to Sweet'

Paris C Reuel

Male Grd: 10 Cat: SCHEM Exn: 1809 PN: 5

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez 1

Title: Secret of OSB Wood'

Third Place

\$50, medal and certificate

Noah B Manz

Male Grd: 11 Cat: SCHEM Exn: 1806 PN: 3

Farmington High School

Teacher/Sponsor: Robert L Watson 1

Title: Constituent Disintegration of CO₂ and DMF Sonic Exfoliation of Graphite Oxide for Graphene Synthesis'**Second Place**

\$100, medal, and certificate

Taegan R Gaultney

Female Grd: 11 Cat: SCHEM Exn: 1802 PN: 2

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Project Protein: Is That Nuts Enough?'

First Place

\$150, medal, certificate

Richard W Walker

Male Grd: 9 Cat: SCHEM Exn: 1811 PN: 1

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Crustacean Filtration: Removal of Radionuclides using Chitosan Filtration from Different Sources'

Senior Category: Computer Science

AN: 74

Top of Category

GN 1

Senior Division**Honorable Mention**

Ribbon and Certificate

William R. Sidley-Parker

Male Grd: 12 Cat: SCOMP Exn: 1757 PN: 4

Los Alamos High School

Teacher/Sponsor: Cornelia S Parker 1

Title: Adding Glial Cell Communication to Artificial Neural Network Simulations'

Third Place

\$50, Medal, and Certificate

Noe - Garcia

Male Grd: 11 Cat: SCOMP Exn: 1753 PN: 3

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Microscan 2D/3D Microbe Counting System'

Second Place

\$100, Medal, and Certificate

Rebecca - Pattichis

Female Grd: 10 Cat: SCOMP Exn: 1756 PN: 2

Albq. Institute for Math and Science

Teacher/Sponsor: Philip K Watje 1

Title: Predicting the Progression of Multiple Sclerosis Using Image Features'

First Place

\$150, Medal, and Certificate

Ryan J Cooper

Male Grd: 12 Cat: SCOMP Exn: 1751 PN: 1

The Ask Academy

Teacher/Sponsor: Nita Cooper 1

Title: Geospatial-Temporal Semantic Graph Search Template Generation via Data Mining'

Senior Category: Energy and Transportation

AN: 77

Top of Category

GN 1

Senior Division**Honorable Mention******TEAM: EACH MEMBER RECEIVES Ribbon and Certificate**

T# 1 **Stacy L Swope** Female Grd: 11 Cat: STRAN Exn: 2705 PN: 4
 Deming High School Teacher/Sponsor: Susan Swope 1
 Title: Now you see it, Now you don't '

T# 2 **Hannah Stockman** Female Grd: 11 Cat: STRAN Exn: 2705 PN: 4
 Deming High School Teacher/Sponsor: Susan Swope 2
 Title: Now you see it, Now you don't '

Third Place

\$50, Medal and Certificate

Lillian R Martinez Female Grd: 11 Cat: STRAN Exn: 2703 PN: 3
 Taos Academy Charter School Teacher/Sponsor: Laura J. Tenorio 1
 Title: Natural Solar: Production of Biofriendly Naturally Produced Solar Panels'

Second Place

\$100, Medal, and Certificate

Amit G Bala Male Grd: 12 Cat: STRAN Exn: 2701 PN: 2
 V. Sue Cleveland HS Teacher/Sponsor: Eileen Romano 1
 Title: The Viability of the Zebra Cooling Effect '

First Place****TEAM: EACH MEMBER RECEIVES \$150, Medal, and Certificate**

T# 1 **Fernando - Guerrero** Male Grd: 11 Cat: STRAN Exn: 2702 PN: 1
 Rio Rancho High School Teacher/Sponsor: Denny J Marquez 1
 Title: Viability of Hydrophobic Coatings to Reduce Drag'

T# 2 **Isaac - Buck** Male Grd: 11 Cat: STRAN Exn: 2702 PN: 1
 Rio Rancho High School Teacher/Sponsor: Denny J Marquez 2
 Title: Viability of Hydrophobic Coatings to Reduce Drag'

Senior Category: Engineering

Top of Category

GN 1

Senior Division**Honorable Mention**

Ribbon and Certificate

Nathan I. Christensen

Male Grd: 12 Cat: SENGR Exn: 2003 PN: 4

Carlsbad High School

Teacher/Sponsor: Deborah Haggerton 1

Title: Robotic Autonomous Navigation'

Connor B Bailey

Male Grd: 12 Cat: SENGR Exn: 2001 PN: 5

Los Alamos High School

Teacher/Sponsor: Dawn Brown 1

Title: The Next Step in the Printing Evolution'

Hayden Walker

Male Grd: 12 Cat: SENGR Exn: 2001 PN: 5

Los Alamos High School

Teacher/Sponsor: Dawn Brown 2

Title: The Next Step in the Printing Evolution'

Third Place

\$50, Medal, and Certificate

Kelly N Charley

Female Grd: 11 Cat: SENGR Exn: 2012 PN: 3

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores 1

Title: Using an Isolated Gain System to Heat a Traditional Home'

Second Place

\$100, Medal, and Certificate

Graham G Monroe

Male Grd: 12 Cat: SENGR Exn: 2008 PN: 2

Rio Grande Enrichment Studies & Home
School

Teacher/Sponsor: Marshall Monroe 1

Title: Mothcopter'

First Place

\$150, Medal, and Certificate

Joseph A Coston

Male Grd: 10 Cat: SENGR Exn: 2004 PN: 1

Albq. Institute for Math and Science

Teacher/Sponsor: Philip K Watje 1

Title: Portable Power Packs'

Senior Division**Honorable Mention**

**TEAM: EACH MEMBER RECEIVES Ribbon and Certificate

- T# 1 **Andrea L Chin-Lopez** Female Grd: 11 Cat: SENVIR Exn: 2101 PN: 4
 Taos High School Teacher/Sponsor: Laura J. Tenorio 1
 Title: Chitobiotics: Chitin vs. Chitosan Novel Pharmaceutical Filtration and Filter Development'
- T# 2 **Arasely M Rodriguez** Female Grd: 11 Cat: SENVIR Exn: 2101 PN: 4
 Taos High School Teacher/Sponsor: Laura J. Tenorio 2
 Title: Chitobiotics: Chitin vs. Chitosan Novel Pharmaceutical Filtration and Filter Development'
- T# 3 **Jin Peng (Will) - Song** Female Grd: 11 Cat: SENVIR Exn: 2101 PN: 4
 Taos High School Teacher/Sponsor: Laura J. Tenorio 3
 Title: Chitobiotics: Chitin vs. Chitosan Novel Pharmaceutical Filtration and Filter Development'
- T# 1 **Edward - Park** Male Grd: 12 Cat: SENVIR Exn: 2106 PN: 5
 Las Cruces High School Teacher/Sponsor: Young Ho Park 1
 Title: Cheap solution to removal of uranium from contaminated groundwater by functionalized clay pellets'

Third Place

\$50, Medal, and Certificate

- Tyra H. Nicolay** Female Grd: 11 Cat: SENVIR Exn: 2105 PN: 3
 Navajo Preparatory School Inc Teacher/Sponsor: Yolanda Flores 1
 Title: Field Testing and Water Quality Analysis of the Navajo Nation and San Juan County'

Second Place

\$100, Medal, and Certificate

- Joel W DuBois** Male Grd: 9 Cat: SENVIR Exn: 2103 PN: 2
 Desert Springs Christian Academy Teacher/Sponsor: Don Lytton 1
 Title: Discovering Las Cruces' Urban Heat Island'

First Place

\$150, Medal, and Certificate

- Erika - Yellowhair** Female Grd: 11 Cat: SENVIR Exn: 2110 PN: 1
 Kirtland Central High School Teacher/Sponsor: Ann Aboyme 1
 Title: The San Juan River After the Animas River Toxic Waste Spill'

Senior Division

Third Place

\$50, Medal, and Certificate

Xander O Jones

Male Grd: 9 Cat: SMATH Exn: 2201

PN: 3

Navajo Preparatory School Inc

Teacher/Sponsor: Yolanda Flores

1

Title: Fractals'

Second Place

\$100, Medal, and Certificate

John R Keeney

Male Grd: 12 Cat: SMATH Exn: 2202

PN: 2

Rio Rancho High School

Teacher/Sponsor: Robert Keeney

1

Title: Proving Properties of Sudoku Analytically'

First Place

\$150, Medal, and Certificate

Theodore M Petersen

Male Grd: 12 Cat: SMATH Exn: 2203

PN: 1

Los Alamos High School

Teacher/Sponsor: Dawn Brown

1

Title: Predictable or Chaotic? Orbits versus Weather'

Senior Category: Medicine and Health Science

AN: 82

Top of Category

GN 1

Senior Division**Honorable Mention**

Ribbon and Certificate

Priyanka - Jain

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

La Cueva High School

Teacher/Sponsor: Kimberly Conell 1

Title: Novel use of Enzymes in Silica Mesoporous Protocell to Selectively Target
Cancer Cells using Aptamer'**Lien T Tang**

Female Grd: 10 Cat: SMED-H Exn: PN: 5

Manzano High School

Teacher/Sponsor: Richard Cripps 1

Title: Drosophila Mutant holdup Arises from a Mutation in a Conserved Gene Required
for Muscle Integrity'**Third Place**

\$50, Medal, and Certificate

Rusty W Ludwigsen

Male Grd: 9 Cat: SMED-H Exn: 2304 PN: 3

Early College Academy

Teacher/Sponsor: Mark Walker 1

Title: Passive Reduction of Involuntary Arm/Hand Tremors: Phase III'

Second Place****TEAM: MEMBERS SPLIT \$100, Medal and Certificate****T# 1 Priyanka V Velappan**

Female Grd: 10 Cat: SMED-H Exn: PN: 2

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 1

Title: Modeling and Experimental Characterization of IgE Receptor Signaling to
Develop Drugs for Allergies'**T# 2 Alex L Ionkov**

Male Grd: 10 Cat: SMED-H Exn: 2310 PN: 2

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 2

Title: Modeling and Experimental Characterization of IgE Receptor Signaling to
Develop Drugs for Allergies'**First Place******TEAM: MEMBERS SPLIT \$150, Medal, and Certificate****T# 1 Jovan Y Zhang**

Male Grd: 12 Cat: SMED-H Exn: 2312 PN: 1

Los Alamos High School

Teacher/Sponsor: Duan Z Zhang 1

Title: Applying Jacobian Free Krylov Solvers to Model Epidemics'

T# 2 Sophia Li

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

Los Alamos High School

Teacher/Sponsor: Duan Z Zhang 2

Title: Applying Jacobian Free Krylov Solvers to Model Epidemics'

Senior Category: Microbiology

AN: 83

Top of Category

Senior Division

GN 1

Honorable Mention

Ribbon and Certificate

Victoria K Crosby

Female Grd: 11 Cat: SMICRO Exn: 2403 PN: 4

Amy Biehl Charter Highschool

Teacher/Sponsor: Beth Saucedo 1

Title: What's in Your Tree? A Morphological and Molecular Survey of the Paracites Found in Sorex hoyi.'

Third Place

\$50, Medal, and Certificate

Zachary R Ginn

Male Grd: 9 Cat: SMICRO Exn: 2405 PN: 3

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Capsaicin DeTox Reduction of Tobacco Toxicity in Lumbricus terrestris Cell Cultures using Capsaicin'

Second Place

\$100, Medal, and Certificate

Sierra A Ferguson

Female Grd: 9 Cat: SMICRO Exn: 2404 PN: 2

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Mitocrisis Impact of Natural & Synthetic Antibiotics on Mitochondrial Toxicity'

First Place

\$150, Medal, and Certificate

Devin M Padilla

Male Grd: 9 Cat: SMICRO Exn: 2409 PN: 1

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Breaking Biofilm'

Senior Division**Honorable Mention**

Ribbon and Certificate

Leah D Epstein

Female Grd: 9 Cat: SPHY Exn: 2504 PN: 4

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: Reverse Polymerization: Photonic vs. Harmonic De-polymerization Techniques for Plastics Degradation'

Zachary E Goodrich

Male Grd: 10 Cat: SPHY Exn: 2507 PN: 5

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Asteroid Belt Orbital Movements '

Third Place

\$50, Medal, and Certificate

Evan S Crockett

Male Grd: 11 Cat: SPHY Exn: 2502 PN: 3

V. Sue Cleveland HS

Teacher/Sponsor: Angelica E Lopez 1

Title: Binocular Wide Field of View Satellite Tracking'

Second Place

\$100, Medal, and Certificate

Elijah A. Pelofske

Male Grd: 9 Cat: SPHY Exn: 2510 PN: 2

Los Alamos High School

Teacher/Sponsor: Katie Tauxe 1

Title: Cryogenic Magnetism'

First Place****TEAM: MEMBERS SPLIT \$150, Medal, and Certificate****T# 1 Richard J Dargan**

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

Albuquerque Academy

Teacher/Sponsor: Jim Mims 1

Title: Improving Global Positioning Systems Through Satellite Selection'

T# 2 Carl R Cherne

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

Albuquerque Academy

Teacher/Sponsor: Jim Mims 2

Title: Improving Global Positioning Systems Through Satellite Selection'

Senior Category: Plant Sciences

AN: 85

Top of Category

GN 1

Senior Division**Honorable Mention**

Ribbon and Certificate

Delaney E Galligan

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

Taos High School

Teacher/Sponsor: Laura J. Tenorio 1

Title: OxiSeeds Biosynthetic Production of Soil/Seed Packects for Drought, Erosion & Pollution Remediation'

Calvin Scott John S Yazzie

Male Grd: 12 Cat: SPLANT Exn: 2609 PN: 5

Newcomb High School

Teacher/Sponsor: rowena A ranoco 1

Title: Hay Infusion: Organic Fix for Radiowave-triggered Disease of Money Plant (Epipremnum aureum)'

Third Place

\$50, Medal and Certificate

Chali A Simpson

Female Grd: 11 Cat: SPLANT Exn: 2608PN: 3

Grants High School

Teacher/Sponsor: Shelby Alexander 1

Title: Getting the Dirt on Diversity II'

Second Place

\$150, Medal and Certificate

Jamie N LeVie

Female Grd: 11 Cat: SPLANT Exn: 2604PN: 2

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: Hydroponic v. Soil: Calendulas'

First Place****TEAM: MEMBERS SPLIT \$150, Medal and Certificate****T# 1 Madison Paulk**

Female Grd: 11 Cat: SPLANT Exn: 2610PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 1

Title: R.O.P.E. Radiation on Plants Experiment'

T# 2 Sharon P. Tafoya

Female Grd: 11 Cat: SPLANT Exn: 2610PN: 1

Rio Rancho High School

Teacher/Sponsor: Jennifer Miyashiro 2

Title: R.O.P.E. Radiation on Plants Experiment'

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.

GN 1

Senior Division**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.

Priyanka V Velappan

Female Grd: 10 Cat: SMED-H Exn: PN: 1

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 1

Title: Modeling and Experimental Characterization of IgE Receptor Signaling to Develop Drugs for Allergies'

Alex L Ionkov

Male Grd: 10 Cat: SMED-H Exn: 2310 PN: 1

Los Alamos High School

Teacher/Sponsor: Nileena Velappan 2

Title: Modeling and Experimental Characterization of IgE Receptor Signaling to Develop Drugs for Allergies'

Rusty W Ludwigsen

Male Grd: 9 Cat: SMED-H Exn: 2304 PN: 2

Early College Academy

Teacher/Sponsor: Mark Walker 1

Title: Passive Reduction of Involuntary Arm/Hand Tremors: Phase III'

Jovan Y Zhang

Male Grd: 12 Cat: SMED-H Exn: 2312 PN: 3

Los Alamos High School

Teacher/Sponsor: Duan Z Zhang 1

Title: Applying Jacobian Free Krylov Solvers to Model Epidemics'

Sophia Li

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

Los Alamos High School

Teacher/Sponsor: Duan Z Zhang 2

Title: Applying Jacobian Free Krylov Solvers to Model Epidemics'