



Congratulations 2019 Winners!

Best in Show- Junior Division

Mikey Bane, Aspen Elementary

“Aerofoil Engineering”

Best in Show- Senior Division

Lillian Peterson & Garyk Brix

“A Novel Computational Tool to Inform Cost- Effective Nutrition Interventions in Sub- Saharan Africa”

New Mexico Junior Academy of Science Paper Competition Junior Division

1st Place: Michael Bane, Aspen Elementary- Los Alamos

2nd Place: David Reichhardt, Mountain Elementary School- Los Alamos

Honorable Mention: William Borovina, Mountain Elementary School, Los Alamos

Honorable Mention: Sonja Ebey, Los Alamos Middle School

Honorable Mention: Katie Peterson, Mountain Elementary- Los Alamos

New Mexico Junior Academy of Science Paper Competition Senior Division

1st Place: Lillian Peterson & Garyk Brix, Los Alamos High School

2nd Place: Britney Hsu, Taos Academy Charter School

Honorable Mention: Karin Ebey, Los Alamos High School

Honorable Mention: Elijah Pelofske, Los Alamos High School

Honorable Mention: Rose Osborne, Taos Academy Charter School

Honorable Mention: Christi Djidjev, Los Alamos High School

Honorable Mention: Robert Strauss, Los Alamos High School

Animal Science

Junior Division

1st Place: Matthew Lovato, Pinon Elementary, *"Eggs-amine Your Yolks"*

2nd Place: Zoe Bent, Chamisa Elementary, *"Picky, Picky Birds"*

3rd Place: Betty Kang & Andrea Chapman, Los Alamos Middle School *"Would a Dog be Capable of Choosing a Favorite Color?"*

Senior Division

1st Place: Karen Ebey, Los Alamos High School, *"Modeling Effects of Invasive Species"*

2nd Place: Marisa Armijo, West Las Vegas High School, *"Varying Deer & Elk Populations"*

3rd Place: Carter Brezina, Taos Academy Charter School, *"Lumbricus Microplaticus"*

Behavioral & Social Science

Junior Division

1st Place: Katherine Peterson, Mountain Elementary, *"How Easy is it to Read Simple Spelling"*

2nd Place: Lucas Robbins, La Mariposa Montesory School, *"Colorblind in the Classroom"*

3rd Place: Madelyn Crotzer, Los Alamos Middle School, *"Sleep Tight? Or Blue Light?"*

Honorable Mention: Elsie Ovaska, Los Alamos Middle School, *"Overthinking Everything"*

Senior Division

1st Place: Marcus Froeschle, Taos Academy Charter School, *"Ultra Sonic Disruption: Impact of Ultra Sonic Frequencies on C Elegans"*

2nd Place: Nilesh Mukundan, Los Alamos High School, *"There's an App for That!"*

3rd Place: Brianna Maes, West Las Vegas High School, *"Decorated Walls"*

Honorable Mention: Faith Armijo, Wagon Mound High School, *"Hold Tight"*

Biology

Junior Division

1st Place: Conian Wilds- Rivera, Los Alamos Middle School, *"Evolving Euglenas"*

2nd Place: Marcos Martinez, Barranca Mesa Elementary School, *"Bacteria Wars"*

3rd Place: Molly Couture, Barranca Mesa Elementary School, *"Yeast Fermentation in Different Bread Flours"*

Honorable Mention: Marielle Gomez, Taos Charter, *"Watch your Language"*

Senior Division

1st Place: Charles Strauss, Los Alamos High School, *"Protein Function Prediction via Artificial Intelligence"*

2nd Place: Alexis Abeyta & Hailey Valdez, West Las Vegas High School, *"Antimicrobial Resistance"*

3rd Place: Maggie Gibson, Academy for Technology and the Classics, *"Hydroponics"*

Chemistry

Junior Division

1st Place: Teresa Parraz, Taos Charter School, *"The Break-up Between H₂ and O"*

2nd Place: Rebecca Rocha, Los Alamos Middle School, *"Does Temperature Affect the Rate of Enzyme Catalyzed Reactions"*

3rd Place: Hajer Maaz, Monte del Sol Charter School, *"Surface Tension vs. Purity of Water"*

Honorable Mention: Antonio Silva, Taos Middle School, *"Cold Weather Concreting"*

Honorable Mention: Dillan Uphoff, Taos Academy Charter School, *"Power of the Ply"*

Senior Division

1st Place: Lane Clavel, Roy High School, *"Pump up the Protein"*

Computer Science

Junior Division

1st Place: Alexander Livescu, Los Alamos Middle School, *“Adventures in QC”*

2nd Place: Quintin Geller, Los Alamos Middle School, *“Boosting WiFi”*

3rd Place: Andrew Morgan, Barranca Mesa Elementary School, *“Detecting Shock Waves with AI”*

Senior Division

1st Place: Elijah Pelofske, Los Alamos High School, *“Using QAOA to Solve NP- Hard Problems on NISQ Computers”*

2nd Place: Azucena Gonzales, West Las Vegas High School, *“EZ Recycling”*

3rd Place: Daniel Rossales & Terra Rivera, Academy of Technology & the Classics, *“Does Light Bulb Color Affect Sleep”*

Earth Science

Junior Division

1st Place: Yunseo Kim, Los Alamos Middle School, *“Global Warming and Your Health”*

2nd Place: Veronica Parra, Los Alamos Middle School, *“What is the Radius of the Earth’s Core”*

3rd Place: Eliza Lamborn, Los Alamos Middle School, *“Best Solar Oven”*

Honorable Mention: Ashlee Montoya, Taos Middle School, *“Worm Appeal”*

Senior Division

1st Place: Faris Wald, Santa Fe High School, *“Van Allen's Key: Unlocking the Secret of Yearly Worldwide Tropical Cyclone Activity”*

2nd Place: Robert Strauss, Los Alamos High School, *“Analyzing the Kola Tsunami”*

3rd Place: Cristi Djidjer, Los Alamos High School, *“Ice vs. Water: Estimating Ice Shelf Melt Rates”*

Honorable Mention: Elijah Armijo, Wagon Mound High School, *“Combination of Sediments that Will Filter the Best”*

Energy and Transportation

Junior Division

1st Place: Loretta Montoya, Roy Municipal Schools, *“Going with the Wind”*

2nd Place: Braden Heiner, Taos Charter School, *“Super Solar”*

3rd Place: Ozias Miller, Taos Charter School, *“Oven on the Go”*

Honorable Mention: Jazmin Bernal, Taos Middle School *“UV Light vs. Heat Lamp”*

Senior Division

1st Place: Jordan Balchshear, Santa Rosa High School, *“Chef’s Choice”*

Engineering

Junior Division

1st Place: Hayden Greywolf, Taos Charter School, *“Cooking Food or Cooking You?”*

2nd Place: Augustin Martinez & Alejandro Martinez, Taos Charter School *“We Can Read”*

3rd Place: Oliver Lamure & Kaitlin Coontz, Taos Academy Charter School, *“Bio Plastic Wasted”*

Honorable Mention: Zachary Sheats, Pinon Elementary School, *“Getting into Shape”*

Honorable Mention: David Reichardt- Mountain Elementary School, *“Robustness on Lego Bridges”*

Senior Division

1st Place: Rose Osborne, Taos Academy Charter School, *“6 Shield: Carbon- based Natural Textile Enhancement for Fire Resistance, Strength and Breathability”*

2nd Place: Alyanna Cuevas, Jose Maestas, & Dillon Salazar, Espanola Valley High School, *“Bullet Temperature”*

Environmental Science

Junior Division

1st Place: Dominique Vigil, Taos Middle School, *"No Need to be Salty"*

2nd Place: Hunter Scott, Roy Middle School, *"Mother Nature's Toxic Clean- up"*

3rd Place: Annabelle Rosette, Barranca Mesa Elementary School, *"How Will Feeding Earthworms Different Diets Affect Their Growth?"*

Honorable Mention: Kasey Griffith, Roy Middle School, *"I Can See Clearly Now the Waste is Gone"*

Senior Division

1st Place: Lillian Peterson & Garyk Brix, Los Alamos High School, *"A Novel Computational Tool to Inform Cost- Effective Nutrition Interventions in Sub- Saharan Africa"*

2nd Place: Isaiah Dean, David Lopez- Amaya, & Josh Moreno, West Las Vegas High School, *"Macroinvertebrates as a Bio Indicator"*

3rd Place: Riley Clavel & Koen Overberger, Roy High School, *"Fire on the Mountain, Ash in the Stream"*

Honorable Mention: Angelo Armijo, Jonathan Gallegos, & Nayeli Tapia, West Las Vegas High School, *"Rainbow Trout Population of the Pecos River"*

Mathematical Science

Junior Division

1st Place: Sonja Ebey, Los Alamos Middle School, *"Non Identical Triplets"*

2nd Place: Julian Singell, Los Alamos Middle School, *"Are New High Capabilities accurately evaluated during Hiring"*

Medicine & Health Science

Junior Division

1st Place: Patrick Velasquez, Carlos Vigil Middle School, *"Benefits of M. Berry"*

2nd Place: Jace Monson, El Dorado Community School, *"Age + Reaction Time"*

3rd Place: Jordan Mirabel, Taos Middle School, *"Orange Peel Band-Aids"*

Honorable Mention: Sheree Andersen & Josie Esquibel, Roy Middle School, *"Unleash the Peroxidase"*

Senior Division

1st Place: Jimena Ballesteros & Britney Hsu, Taos Academy Charter School, *"Amyloid Vector: Plant Based Reduction of Amyloid Plaque Formation to Reduce Amyloidosis"*

2nd Place: Anna Abeyta, Los Alamos High School, *"Spinal Muscular Atrophy"*

Physics & Astronomy

Junior Division

1st Place: Mikey Bane, Aspen Elementary School, *"Aerofoil Engineering"*

2nd Place: Katie Crooker, Los Alamos Middle School, *"The Hot Chocolate Effect"*

3rd Place: Linnhtet Htoon, Pinon Elementary School, *"Newton's Cradle"*

Honorable Mention: Ariana Maestas, Taos Academy Charter School, *"Laser Visibility"*

Senior Division

1st Place: Phillip Ionkov, Los Alamos High School, *"Experimental Validation of Quantum Entanglement Using Affordable Apparatus"*

2nd Place: Nimkees Whiteeagle, Academy for Technology and the Classics, *"How Blood Splatters"*

3rd Place: Aesa Thompson, Santa Rosa High School, *"Polymer Protection"*

Plant Science

Junior Division

1st Place: Claire Johnston, Landon Behrens, & Clementine Johnston, Turquoise Trail Charter School, *"Lemons vs. Limes, Bumpy vs. Smooth"*

2nd Place: Brayden Allen, Pinon Elementary, *"Sprouting Seeds with Raspberry Pi"*

3rd Place: Selma Baca, Roy Middle School, *"Plant Enhancement with a Zap: Phase II"*

Senior Division

1st Place: Katharine Pacheco, Taos Academy Charter School, *"War of the Bloom: Natural Solution Impact on Spirulina (Algae) Bloom Reduction"*

