

# New Mexico Science and Engineering Fair

## Junior Animal Sciences, Cellular and Molecular Biology

### Honorable Mention

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Miranda Contreras	JR-ASCMB-1 <sup>1</sup>	The Effect of Electromagnetic Waves on E. coli Bacteria Growth	El Dorado Community School
Thermo Fisher			
Miranda Contreras	JR-ASCMB-1 <sup>1</sup>	The Effect of Electromagnetic Waves on E. coli Bacteria Growth	El Dorado Community School
New Mexico Network for Women in Science & Engineering			
Nina Gilroy	JR-ASCMB-1 <sup>1</sup>	Blind Cosmetologist	Taos Middle School

### Third Place

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Emma Baca	JR-ASCMB-1 <sup>1</sup>	Stopping The Stank!	LOS ALAMITOS MIDDLE
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### Second Place

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Evelyn Fobes	JR-ASCMB-1 <sup>1</sup>	Extractic Park	LOS ALAMOS MIDDLE
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### First Place

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Oscar Groves	JR-ASCMB-1 <sup>1</sup>	Microbial Growth in Your Rice, You Can't B Cereus?	Jefferson Middle School
C02 & Greenhouse Gas Reduction			

Oscar Groves	JR-ASCMB-1 <sup>1</sup>	Microbial Growth in Your Rice, You Can't B Cereus?	Jefferson Middle School
Life Sciences Grand Award			

# New Mexico Science and Engineering Fair

## Junior Behavioral and Social Sciences

### Honorable Mention

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Amelie Blaustein	JR-BEHA-203	Face to Face Screen to Screen	Taos Middle School
Elijah Salazar-Valencia	JR-BEHA-204	Algorithm: Strategy for Unbeatable Tic-Tac-Toe	CUBERO ELEMENTARY

### Third Place

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Melanie Juarez Salgado	JR-BEHA-201	Fear and Flow: How your emotions drive your heart	Taos Middle School
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### Second Place

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Niyah Lambson	JR-BEHA-205	Preventing Alzheimer's: Keeping Amyloid Beta Proteins Apart CO2 & Greenhouse Gas Reduction	RAMAH HIGH
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### First Place

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Max Berger	JR-BEHA-206	Music and Cognitive Performance: Effects on Memory Recall CO2 & Greenhouse Gas Reduction	Albuquerque Academy
Max Berger	JR-BEHA-206	Music and Cognitive Performance: Effects on Memory Recall Thermo Fisher	Albuquerque Academy
Balraj Sandhu	JR-BEHA-206	Music and Cognitive Performance: Effects on Memory Recall CO2 & Greenhouse Gas Reduction	Albuquerque Academy
Balraj Sandhu	JR-BEHA-206	Music and Cognitive Performance: Effects on Memory Recall Thermo Fisher	Albuquerque Academy

# New Mexico Science and Engineering Fair

## Junior Biomedical and Health Sciences

### Honorable Mention

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SEQUOYA KE	JR-BMED-301	Mapping Medication Deserts: Pharmacy Access in New Mexico	Los Alamos Middle School
C02 & Greenhouse Gas Reduction			

### Third Place

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Marian Grassie	JR-BMED-301	Fighting (AL) Amyloidosis: Keeping Immunoglobulin Light Chains from Clumping	RAMAH HIGH
C02 & Greenhouse Gas Reduction			

### Second Place

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Ashvita Prasankumar	JR-BMED-301	A Change of Heart: Predictive Modeling of Heart Disease Risk	Desert Willow Family School
Thermo Fisher			

### First Place

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Suzanna Ansari	JR-BMED-301	The Thermal Trigger: Unravelling Temperature's Role in Anesthesia	Albuquerque Institute of Math & Science
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# New Mexico Science and Engineering Fair

## Junior Chemistry and Biochemistry

### Honorable Mention

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Ayat Fatima	JR-CHEM-401	How Does pH Level Affect Color Pigments Extracted from Plants?	Albuquerque Institute of Math & Science
Max Velizhanin	JR-CHEM-401	How Temperature Affects the Rate of a Chemical Reaction	El Dorado Community School

### Third Place

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Ashley Nsiah	JR-CHEM-411	Demonstrating Enzyme Catalase Activity Using a Potato and Hydrogen Peroxide	Albuquerque School of Excellence
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### Second Place

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Noriah Lopez	JR-CHEM-401	To Dye Or Not To Die?	Taos Middle School
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### First Place

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Ellie Carril	JR-CHEM-401	Gone in a flash: The photodegradation of four inks under UV exposure	El Dorado Community School
C02 & Greenhouse Gas Reduction			

# New Mexico Science and Engineering Fair

## Junior Earth and Environmental

### Honorable Mention

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Bailey Martinez	JR-EAEV-501	Monitoring Police Officer Stress American Psychological Association & Teachers of Psychology in Secondary	Sacred Heart Catholic School
Bailey Martinez Anthony Ortiz	JR-EAEV-501	Monitoring Police Officer Stress	Sacred Heart Catholic School
Bailey Martinez Clay T. Smith	JR-EAEV-501	Monitoring Police Officer Stress	Sacred Heart Catholic School
Ava Toivanen	JR-EAEV-517	Will it filter?	St. Teresa of Avila Catholic School

### Third Place

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Aurie Gomez	JR-EAEV-509	Painting for the Planet: Comparing Heat Reflection in Natural Eco-friendly Paints Ricoh Sustainable Development Award	Albuquerque Institute of Math & Science
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### Second Place

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Camylle Hubbard	JR-EAEV-508	Sunflowers Using Photosynthesis for CO2 Absorption Office of Naval Research (ONR)	Albuquerque Institute of Math & Science
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### First Place

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Sequoia Hopkins	JR-EAEV-511	Biodegradable Bioplastics NASA EARTH System Science Award	Albuquerque Institute of Math & Science
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# New Mexico Science and Engineering Fair

## Junior Embedded Systems, Math, Robotics, Software and Technology (JR-EMRST)

### Honorable Mention

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Yanzhie Hipolito Boquecc JR-EMRST-8<sup>0</sup> Optimizing Object Manipulation: Performance Testing of Three VEX IQ Robot Prototypes LOS ALAMITOS MIDDLE  
C02 & Greenhouse Gas Reduction

Gwenith Prendergast JR-EMRST-8<sup>0</sup> Blame it on the rain MILAN ELEMENTARY

### Third Place

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Mariam Elafandy JR-EMRST-8<sup>0</sup> Is Artificial Intelligence Trustworthy in Resolving Personal Conflicts? Salam Academy  
Institute for Computational Theology

### Second Place

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Nejan Liyanage JR-EMRST-8<sup>0</sup> Geometry in the Real World: Which Shape Holds the Most Weight? MOUNTAIN ELEMENTARY

### First Place

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Sahana Paruchuri JR-EMRST-8<sup>0</sup> Beyond Accuracy: Brain Tumor AI - A Confidence-Calibrated Multi-Stage CNN for MRI Tumor Detection, Subtype Classification and Glioma Grading Albuquerque Academy  
Thermo Fisher

Sahana Paruchuri JR-EMRST-8<sup>0</sup> Beyond Accuracy: Brain Tumor AI - A Confidence-Calibrated Multi-Stage CNN for MRI Tumor Detection, Subtype Classification and Glioma Grading Albuquerque Academy  
New Mexico Network for Women in Science & Engineering

# New Mexico Science and Engineering Fair

## Junior Energy and Materials Science

### Honorable Mention

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Amana Khraishi	JR-ENMS-604	The Effect of Eggshell Powder in a Composite on Mechanical Properties	Salam Academy
ASM International - Los Alamos Chapter			

Elianna March Sausa	JR-ENMS-604	Turning Waste to Energy : Producing Biogas from Fruit and Vegetable Waste	CUBERO ELEMENTARY
Thermo Fisher			

### Third Place

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Jonathan Shockley	JR-ENMS-610	Functional Ferrofluids	Albuquerque School of Excellence
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### Second Place

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ANDRIA BENDER	JR-ENMS-604	"Light it up: What is the effect of different light sources on solar panel efficiency"	El Dorado Community School
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### First Place

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Ahmet Yanar	JR-ENMS-604	Hot or Not: Slowing Climate Change Using Carbon-Free Fuel Through Electrolysis	Albuquerque School of Excellence
CO2 & Greenhouse Gas Reduction			

Ahmet Yanar	JR-ENMS-604	Hot or Not: Slowing Climate Change Using Carbon-Free Fuel Through Electrolysis	Albuquerque School of Excellence
Climate Change NM			

# New Mexico Science and Engineering Fair

## Junior Engineering Technology: Statics and Dynamics

### Honorable Mention

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Gordon Hilton	JR-ETSD-712	Ground Effect: Testing Height-Dependent Lift on a NACA 6412 Wing	HERMOSA MIDDLE SCHOOL
Klark Rivera	JR-ETSD-709	Turning The Sky: The Science Behind Rocket Spin Dynamics	LOS ALAMITOS MIDDLE
C02 & Greenhouse Gas Reduction			

### Third Place

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Robert Ortiz	JR-ETSD-703	Home Aerodynamics	St. Thomas Aquinas School
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### Second Place

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Heath Linam	JR-ETSD-705	Designing and Building a Solar Powered Plane for Surveying Large Areas	Albuquerque Institute of Math & Science
C02 & Greenhouse Gas Reduction			
Heath Linam	JR-ETSD-705	Designing and Building a Solar Powered Plane for Surveying Large Areas	Albuquerque Institute of Math & Science
Thermo Fisher			
Heath Linam	JR-ETSD-705	Designing and Building a Solar Powered Plane for Surveying Large Areas	Albuquerque Institute of Math & Science
Citadel			

### First Place

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Gareth Jones	JR-ETSD-706	Making a Generator That Uses Vortex Shedding to Convert Wind Energy Into Electricity	Albuquerque Institute of Math & Science
New Mexicans for Science and Reason (NMSR) Use of Scientific Method			

# New Mexico Science and Engineering Fair

## Junior Physics and Astronomy

### Honorable Mention

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Brooke Shelland	JR-PHAST-91	Is It Worth It: Name Brand Versus Generic Brand Using a Study on Thermal Retention	Our Lady of The Assumption Catholic School
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### Excellent

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Mary Beth Kelsey Thermo Fisher	JR-PHAST-9C	Most accurate ammunition in my rifle	BARRANCA MESA ELEMENTARY
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### Third Place

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Scarlett Groves Teresa Johnson	JR-PHAST-91	Star Light, Star Bright, the Importance of White Light: The Search for Water on Distant Planets	Jefferson Middle School
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### Second Place

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MASON GARCIA David Shortess	JR-PHAST-9C	Measuring Impact Craters on Mercury Using Shadows from MESSENGER Images	LOS ALAMOS MIDDLE
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### First Place

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sydney chen	JR-PHAST-9C	Building an Electromagnet	BARRANCA MESA ELEMENTARY
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# New Mexico Science and Engineering Fair

## Junior Plant Sciences

### Third Place

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Tanisha Kayate CO2 & Greenhouse Gas Reduction	JR-PLNT-100	Shining Colors : Investigating How Light Colors and Solutions Affect Photosynthesis in Spinach Leaf Disks	CUBERO ELEMENTARY
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### Second Place

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Jesvitha Pulagura Thermo Fisher	JR-PLNT-100	Can Biodegradable Hydrogels Help Conserve Water in Farming?	Albuquerque Institute of Math & Science
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### First Place

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Glyn Lo	JR-PLNT-100	The Cabbage Won't Quit	MOUNTAIN ELEMENTARY
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# New Mexico Science and Engineering Fair

## Senior Animal Sciences and Microbiology

### Honorable Mention

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Brian Jolly	SR-ASMB-10	How Intelligent Was the Tyrant Lizard King of the Cretaceous: The Tyrannosaurus Rex?	V. Sue Cleveland High School
United States Metric Association			
Brian Jolly	SR-ASMB-10	How Intelligent Was the Tyrant Lizard King of the Cretaceous: The Tyrannosaurus Rex?	V. Sue Cleveland High School
Rex Robinson Award			
Ryan Nguyen	SR-ASMB-10	Gastropod Biomineralization and Water Chemistry	Rio Rancho High School
Stockholm Jr. Water Prize			

### Second Place

---

Peyton Kerr	SR-ASMB-10	Targeting Biofilm Resistance: Comparative Efficacy of Hydrogen Peroxide, Acetic Acid, Medical Honey, Dakin's Solution and EDTA Against Baker's Yeast	Albuquerque Institute of Math & Science
CO2 & Greenhouse Gas Reduction			
Peyton Kerr	SR-ASMB-10	Targeting Biofilm Resistance: Comparative Efficacy of Hydrogen Peroxide, Acetic Acid, Medical Honey, Dakin's Solution and EDTA Against Baker's Yeast	Albuquerque Institute of Math & Science
United States Metric Association			

### First Place

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SABASTIAN GRIEGO	SR-ASMB-10	Watch Out, Bacteria!: A Novel Investigation as Microplastics Mediate Bacterial Aggregation, Proliferation, and Antibiotic Resistance by Inhibiting Bacterial Dispersal and Enabling the Exchange of Resistance Genes in Aquatic Environments	GRANTS HIGH
ISEF			

# New Mexico Science and Engineering Fair

## Senior Behavioral and Social Sciences

### Honorable Mention

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Evan Pena	SR-BEHA-20	Sensing Suicide: Galvanic Skin Sensing System to Determine Simulated Neurochemical Changes	Taos Academy
Linus Plohr Yale Science and Engineering Association	SR-BEHA-20	Collective Intelligence: Driving Lessons From Ants	Los Alamos High School
Linus Plohr Rose Baca-Rivet	SR-BEHA-20	Collective Intelligence: Driving Lessons From Ants	Los Alamos High School
Linus Plohr Citadel	SR-BEHA-20	Collective Intelligence: Driving Lessons From Ants	Los Alamos High School

### Third Place

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Daveany Lohr	SR-BEHA-20	Generational Differences in Identifying AI, Student and Journalist Written Articles	Albuquerque Institute of Math & Science
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### Second Place

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Tam Pham	SR-BEHA-20	Cultural Identity, Coping and Mental Health: Suicidal Ideation in AAPI Youth	Albuquerque School of Excellence
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### First Place

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Sowmya Sankaran ISEF	SR-BEHA-20	Characterizing Cognitive Dynamics in AI: Designing Virtual Worlds For A Comparative Analysis of Persona-Driven Behavior in Individual and Collaborative Agentic Systems	Albuquerque Academy
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# New Mexico Science and Engineering Fair

## Senior Biology, Cellular and Medical Sciences

### Honorable Mention

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Isabella Halley	SR-BMED-30	A Novel Fluorescent Reporter Side-by-Side Assay for Detecting Plasmid-Mediated Gene Transfer in Bacteria	GRANTS HIGH
Gael Zeller	SR-BMED-30	Algorithmically Predicting Rare Disease Risk Using PRS(Polygenic Risk Scores) and Environmental Modifiers	Albuquerque Institute of Math & Science

### Third Place

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June Loukinas	SR-BMED-31	Mechanobiological Reprogramming of Cancer Cells in RPM-Simulated Microgravity: A High-Fidelity Transcriptomic Model for Overcoming Chemoresistance and Therapeutic Regression.	SAN JUAN COLLEGE HIGH SCHOOL
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### Second Place

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Aanya Asoori	SR-BMED-30	RetinaVision: AI Powered Detection of Retinitis Pigmentosa and Other Retinal Diseases from Fundus Images	La Cueva High School
Yale Science and Engineering Association			

### First Place

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Aditi Ganti	SR-BMED-30	Beyond the Mutation: Evolution-Aware Antibiotic Discovery Through a Novel Resistance-Robust Computational Framework	La Cueva High School
CO2 & Greenhouse Gas Reduction			
Aditi Ganti	SR-BMED-30	Beyond the Mutation: Evolution-Aware Antibiotic Discovery Through a Novel Resistance-Robust Computational Framework	La Cueva High School
Regeneron Biomedical Science Award			
Aditi Ganti	SR-BMED-30	Beyond the Mutation: Evolution-Aware Antibiotic Discovery Through a Novel Resistance-Robust Computational Framework	La Cueva High School
New Mexico Network for Women in Science & Engineering			
Aditi Ganti	SR-BMED-30	Beyond the Mutation: Evolution-Aware Antibiotic Discovery Through a Novel Resistance-Robust Computational Framework	La Cueva High School
Richard N. Overdorf Grand Award			
Aditi Ganti	SR-BMED-30	Beyond the Mutation: Evolution-Aware Antibiotic Discovery Through a Novel Resistance-Robust Computational Framework	La Cueva High School
ISEF			

# New Mexico Science and Engineering Fair

## Senior Chemistry and Biochemistry

### Honorable Mention

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Maleah Brashear	SR-CHEM-40	Is Expired Aspirin Still Effective?	Rio Rancho High School
Lucas Tang	SR-CHEM-40	Antimicrobial: Putative Antimicrobial Peptides Extracted from Pogonomyrmex rugosus	New Mexico Military Institute

American Chemical Society

### Third Place

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Melaina Yazzie	SR-CHEM-40	Antioxidative Comparison of Thelesperma (Navajo Tea) with Black Tea and Green Tea using DPPH Assay	SAN JUAN COLLEGE HIGH SCHOOL
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### Second Place

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Rylan Garcia	SR-CHEM-40	A "Light" Dose of L-DOPA: Investigating the Biological Effect of the Light Spectrum on Enzyme Reactions	Rio Rancho High School
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Society for In Vitro Biology

Catherine Tigert	SR-CHEM-40	A "Light" Dose of L-DOPA: Investigating the Biological Effect of the Light Spectrum on Enzyme Reactions	Rio Rancho High School
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Society for In Vitro Biology

### First Place

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Aspyn Kaskalla	SR-CHEM-40	Concise Assessment of the Lingering Radioactivity on the Navajo Nation: Cove Wash, Arizona and Church Rock, New Mexico Copyright © 2026	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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C02 & Greenhouse Gas Reduction

Aspyn Kaskalla	SR-CHEM-40	Concise Assessment of the Lingering Radioactivity on the Navajo Nation: Cove Wash, Arizona and Church Rock, New Mexico Copyright © 2026	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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Climate Change NM

Aspyn Kaskalla	SR-CHEM-40	Concise Assessment of the Lingering Radioactivity on the Navajo Nation: Cove Wash, Arizona and Church Rock, New Mexico Copyright © 2026	NAVAJO PREPARATORY SCHOOL (FARMINGTON)
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Excellence In Earth Science

# New Mexico Science and Engineering Fair

## Senior Earth and Environmental

### Honorable Mention

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Lukas Colburn	SR-EAEV-510	Plastic Decomposition Machine: The study of plastic bio-degradation utilizing automatic incubation and disposal of Pestalotiopsis microspora and pleurotus pulmonarius	GRANTS HIGH
Toryn Knighton	SR-EAEV-510	Plastic Decomposition Machine: The study of plastic bio-degradation utilizing automatic incubation and disposal of Pestalotiopsis microspora and pleurotus pulmonarius	GRANTS HIGH

### Excellent

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Lilia Viteva	SR-EAEV-502	Flushed: Waste Reduction Through Household Plastic Glassification C02 & Greenhouse Gas Reduction	Los Alamos High School
Lilia Viteva	SR-EAEV-502	Flushed: Waste Reduction Through Household Plastic Glassification New Mexico Network for Women in Science & Engineering	Los Alamos High School

### Third Place

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Declan Padget	SR-EAEV-507	Do Microplastics Increase the Bioavailability of Toxic Chemicals Such as Heavy Metals or Pesticides to Aquatic Organisms?	Albuquerque Institute of Math & Science
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### Second Place

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Rhiannon Patel	SR-EAEV-511	RejuvaDIRT C02 & Greenhouse Gas Reduction	GRANTS HIGH
Rhiannon Patel	SR-EAEV-511	RejuvaDIRT Association for Women Geoscientists	GRANTS HIGH

### First Place

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Hamsini Murali	SR-EAEV-508	Tiny Plastics, Big Effects: Effects of Microplastics on Molecular Diffusion in Simulated Gut and Marine Environments Measured Through Absorbance and Mass Change Using Dialysis Tubing ISEF	Rio Rancho High School
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# New Mexico Science and Engineering Fair

## Senior Embedded Systems, Math, Robotics, & System Software

### Honorable Mention

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William Arnold	SR-EMRS-80	USB Data Security Suite: Encryption, Hidden Storage and Self-destruct Mechanism	Rio Rancho High School
Institute for Computational Theology			

### Third Place

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Helena Welch	SR-EMRS-80	Application of Game Theory to Analysis of Machine versus Human Strategies	Los Alamos High School
Kalliope Luna Welch	SR-EMRS-80	Application of Game Theory to Analysis of Machine versus Human Strategies	Los Alamos High School

### Second Place

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Anirudh Nanda	SR-EMRS-80	CuPID: A Platform to Streamline Tuning Processes of Linear Closed-Loop Systems	Albuquerque Institute of Math & Science
ISEF			

### First Place

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Anderson Stoker	SR-EMRS-80	Constructing a Robust Flexible Locomotion System for Use on Variable Terrain in Extraterrestrial Environments	Albuquerque Institute of Math & Science
CO2 & Greenhouse Gas Reduction			
Anderson Stoker	SR-EMRS-80	Constructing a Robust Flexible Locomotion System for Use on Variable Terrain in Extraterrestrial Environments	Albuquerque Institute of Math & Science
ISEF			

# New Mexico Science and Engineering Fair

## Senior Energy and Materials Science

### Honorable Mention

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Amber Bizardie	SR-ENMS-61	Hydrophobic and Hydrophilic Materials Surface Design in NASA Spacecraft Engineering: The Effect of Geometry and Microgravity on Landing Dynamics and Crew Safety.	SAN JUAN COLLEGE HIGH SCHOOL
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NASA EARTH System Science Award

Amber Bizardie	SR-ENMS-61	Hydrophobic and Hydrophilic Materials Surface Design in NASA Spacecraft Engineering: The Effect of Geometry and Microgravity on Landing Dynamics and Crew Safety.	SAN JUAN COLLEGE HIGH SCHOOL
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United States Air Force

### Excellent

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James Hung	SR-ENMS-60	Anisotropic Heat Spreading: A Novel Approach to Reducing Parasitic Cooling Loads in Electric Vehicle Systems	Albuquerque Institute of Math & Science
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### Third Place

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Cash Wodrich	SR-ENMS-60	Algaethane 2.0: Enzymatic Extraction of Varying Algae Fuels	Taos Academy
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### Second Place

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Edward Bielejec	SR-ENMS-60	Analysis of a Cold-Induced Infrared Thermography (IRT) Non-Destructive Testing (NDT) Methodology for Defect Dimension Determination, Using Finite Element Analysis (FEA) and Machine Learning (ML)	Albuquerque Academy
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### First Place

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Laasya Tutiki	SR-ENMS-60	Optimizing siRNA-Curcumin Nanotherapeutic Codelivery	Albuquerque Academy
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New Mexico Network for Women in Science & Engineering

Laasya Tutiki	SR-ENMS-60	Optimizing siRNA-Curcumin Nanotherapeutic Codelivery	Albuquerque Academy
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ISEF

# New Mexico Science and Engineering Fair

## Senior Engineering Technology: Statics and Dynamics

### Honorable Mention

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Len Janert	SR-ETSD-706	SignSpeak: A Low-Cost Wearable for Translating Hand Signs to Speech	Albuquerque Institute of Math & Science
Aidan Panturad	SR-ETSD-711	Thermal Shock and Ablation Resistance of Hypersonic Surface Materials: A Comparative Experimental Study	Rio Rancho High School
United States Air Force			
Aidan Panturad	SR-ETSD-711	Thermal Shock and Ablation Resistance of Hypersonic Surface Materials: A Comparative Experimental Study	Rio Rancho High School
John Harty			
Matthais Trujillo	SR-ETSD-711	Thermal Shock and Ablation Resistance of Hypersonic Surface Materials: A Comparative Experimental Study	Rio Rancho High School
United States Air Force			
Matthais Trujillo	SR-ETSD-711	Thermal Shock and Ablation Resistance of Hypersonic Surface Materials: A Comparative Experimental Study	Rio Rancho High School
John Harty			

### Third Place

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Joel Saltzman	SR-ETSD-706	Thermowave IV: Thermoacoustic Cooling Apparatus Design and Efficiency	Taos Academy
United States Air Force			

### Second Place

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Maxim Stout	SR-ETSD-706	Designing an Oscillatory Nanofluid-Cooled Heat Exchanger: A Technical Experimental Application of Nanoparticle-Based Coolants in Heat Transfer Systems	Albuquerque Institute of Math & Science
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### First Place

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Yunran He	SR-ETSD-701	Woodpecker: A UAV-Based Sensor Deployment Monitoring System	United World College - USA
CO2 & Greenhouse Gas Reduction			
Yunran He	SR-ETSD-701	Woodpecker: A UAV-Based Sensor Deployment Monitoring System	United World College - USA
New Mexico Network for Women in Science & Engineering			
Yunran He	SR-ETSD-701	Woodpecker: A UAV-Based Sensor Deployment Monitoring System	United World College - USA
ISEF			

# New Mexico Science and Engineering Fair

## Senior Physics and Astronomy

### Honorable Mention

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Alex Friedt SR-PHAST-90 Beyond Flattened Whirlpools: How 3D Simulations Reveal Hidden Vortices in Flood Models V. Sue Cleveland High School  
C02 & Greenhouse Gas Reduction

Alex Friedt SR-PHAST-90 Beyond Flattened Whirlpools: How 3D Simulations Reveal Hidden Vortices in Flood Models V. Sue Cleveland High School  
Stockholm Jr. Water Prize

### Third Place

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Arjun Grandhe SR-PHAST-90 When Black Holes Collide: A Systematic Analysis of Leading Gravitational Waveform Models to Advance Measurement of Black Hole Properties Albuquerque Academy  
Teresa Johnson

### Second Place

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Julian Du SR-PHAST-90 A Machine Learning Model for Binary Classification of Solar Energetic Particle Events United World College - USA

### First Place

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Tate Plohr SR-PHAST-90 Dust Busters: The Effects of Dust Scattering on Observations of X-Ray Binaries LOS ALAMOS HIGH  
Office of Naval Research (ONR)

Tate Plohr SR-PHAST-90 Dust Busters: The Effects of Dust Scattering on Observations of X-Ray Binaries LOS ALAMOS HIGH  
ISEF

# New Mexico Science and Engineering Fair

## Senior Plant Science

### Third Place

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Noah Anaya	SR-PLNT-10C	Waste Product in Agriculture? Determining the Optimal Ratio of Coconut Husk: Desert Soil for Growing Plants in the Desert	Rio Rancho High School
Adalae Call	SR-PLNT-10C	Waste Product in Agriculture? Determining the Optimal Ratio of Coconut Husk: Desert Soil for Growing Plants in the Desert	Rio Rancho High School

### Second Place

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Harry Lee, III	SR-PLNT-10C	Liquid, Solid, Both?	EARLY COLLEGE HIGH SCHOOL (GRANTS)
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### First Place

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Kamilly Siqueira	SR-PLNT-10C	Development of a BioActive, Plant-Based Solution from Yucca and Mesquite for Sustainable and Eco-Friendly Pesticide Removal	New Mexico Military Institute
CO2 & Greenhouse Gas Reduction			
Kamilly Siqueira	SR-PLNT-10C	Development of a BioActive, Plant-Based Solution from Yucca and Mesquite for Sustainable and Eco-Friendly Pesticide Removal	New Mexico Military Institute
ISEF			
That Bach Ton	SR-PLNT-10C	Development of a BioActive, Plant-Based Solution from Yucca and Mesquite for Sustainable and Eco-Friendly Pesticide Removal	New Mexico Military Institute
CO2 & Greenhouse Gas Reduction			
That Bach Ton	SR-PLNT-10C	Development of a BioActive, Plant-Based Solution from Yucca and Mesquite for Sustainable and Eco-Friendly Pesticide Removal	New Mexico Military Institute
ISEF			