

2019 SLV Regional Science Fair – Monte Vista High School Results

Wow, what a night!!!! After a LOT of hard work, dedication, and months of effort, we have our results from the 70th Annual San Luis Valley Regional Science Fair! We were represented by **FIFTEEN** students this year, and they did a *fantastic* job presenting their research on Friday, March 1st at Adams State University.

On behalf of the students and myself, I would like to SINCERELY THANK all the parents, administration, board members, and particularly high school staff members who accommodated, encouraged, and supported these students! We are **extremely** proud of them all!!

Bill Metz Elementary and MV Middle School also received a tremendous list of awards and recognitions, demonstrating once again that Monte Vista is a **leader** in STEM and academics!!

Wonderful job to ALL the students!!

Following are the participating HS students, and the titles of their projects:

Amanda Avila & Trinady Gonzales	<i>Let There Be Light: The Effects of UV Rays on Bacterial Growth in Food.</i>
Blaine Gillespie	<i>Are Your Hands as Clean as You Assume?</i>
Ethan Hotz	<i>Plastic Joints: A Study in 3D Printing Orthopedics</i>
Matyson Jones	<i>Fire Storm: Examining the Relationship between El Nino/La Nina Weather Cycles and Wildfire in the Western US</i>
Amber Michel	<i>Rock On: Limestone's Potential to Improve Water Quality in the Alamosa River Drainage</i>
Molly Nehring	<i>Galactic Outcasts: A Simulation and Study of the Interaction Between Stars Within Globular Clusters</i>
Sara Nehring	<i>Pattern Recognition Using Neural Networks in the MATLAB Programming Environment</i>
Jameson Oberrick	<i>My Car Won't Turn Over in this Cold Weather!</i>
Amada Quintana	<i>The Effects of Stress on Teenage Substance Use</i>
Alyssa Rawinski	<i>Tracking Microplastics through a Food Chain to Determine the Effectiveness of Plastic Biodegradation in Mealworms</i>
Camille Rawinski	<i>UnBEElievable Pollination - Examining the Effects of Air Pollutants on Bumble Bee Pollination.</i>
Caleb Riggerbach	<i>A Study On The Effect High Carbon Dioxide levels Have on Raphanus sativus L. and its Environment</i>
Shunna Sauls	<i>Super Supplements: Antibiotic Properties of Foods and Herbal Remedies</i>
Andres Villa	<i>Examining the Toxicity of Herbicides on Terrestrial and Aquatic Organisms Susceptible to Contamination</i>

In addition to the honors listed below, **Amanda Avila, Trinady Gonzales, Matyson Jones, Amber Michel, Molly Nehring, Sara Nehring, Amada Quintana, Alyssa Rawinski, Camille Rawinski** and **Andres Villa** will represent MVHS at the **64th Colorado Science and Engineering Fair (CSEF)** on April 10–13, 2019 at Fort Collins, Colorado!!

And finally, **Amber Michel, Alyssa Rawinski, Molly Nehring (Alternate), and Andres Villa (Student Observer)** have qualified for the **International Science and Engineering Fair (ISEF)** to be held in Phoenix, Arizona, May 12–17, 2019!!! This is a phenomenal achievement, and is testament to the hard work and dedication of our students, and the amazing support network that surrounds them!!

CONGRATULATIONS TO YOU ALL!!!!!! Please wish these students the BEST OF LUCK at these Fairs!



Project Category Awards

<i>Behavioral Sciences</i>	Amada Quintana	1st Place (CSEF Qualifier)
<i>Biomedical Sciences</i>	Amanda Avila & Trinady Gonzales	1st Place (CSEF Qualifier)
<i>Biomedical Sciences</i>	Blaine Gillespie	3rd Place
<i>Biomedical Sciences</i>	Shunna Sauls	Honorable Mention
<i>Botany</i>	Caleb Riggerbach	Honorable Mention
<i>Chemistry</i>	Alyssa Rawinski	1st Place (CSEF & ISEF Qualifier)
<i>Chemistry</i>	Jameson Oberrick	Honorable Mention
<i>Earth & Space Science</i>	Amber Michel	1st Place (CSEF & ISEF Qualifier)
<i>Earth & Space Science</i>	Matyson Jones	2nd Place (CSEF Qualifier)
<i>Engineering</i>	Ethan Hotz	Honorable Mention
<i>Environmental Sciences</i>	Andres Villa	1st Place (CSEF & ISEF Observer)
<i>Math & Computer Science</i>	Sara Nehring	1st Place (CSEF Qualifier)
<i>Physics</i>	Molly Nehring	1st Place (CSEF & ISEF Alternate)
<i>Zoology</i>	Camille Rawinski	1st Place (CSEF Qualifier)

Academic and Presentation Awards

<i>Best Display Award</i>	Camille Rawinski	1st Place
<i>Best Display Award</i>	Matyson Jones	Honorable Mention
<i>Best Paper Award</i>	Alyssa Rawinski	1st Place
<i>Best Paper Award</i>	Camille Rawinski	Honorable Mention
<i>Oral Presentation Award</i>	Molly Nehring	1st Place
<i>Oral Presentation Award</i>	Sara Nehring	Honorable Mention
<i>Overall "Best of Fair"</i>	Amber Michel	1st Place

Scholarships

<i>Adams State University Scholarship</i>	Amanda Avila & Trinady Gonzales	\$500 each
<i>Adams State University Scholarship</i>	Amber Michel	\$1000
<i>Holm Family Scholarship - CSU</i>	Alyssa Rawinski	\$500
<i>Conejos County Clean Water Scholarship</i>	Amber Michel	\$1000
<i>Conejos County Clean Water Scholarship</i>	Andres Villa	Honorable Mention

Special Awards

<i>Office of Naval Research Award</i>	Camille Rawinski
<i>US Air Force Award</i>	Molly Nehring
<i>Center Soil & Water Conservation District Award</i>	Amber Michel
<i>Conejos County Soil & Water Conservation District Award</i>	Andres Villa
<i>Rio Grande County Watershed Conservation & Education Initiative Award</i>	Amber Michel
<i>Soil & Water Conservation Society of America</i>	Amber Michel
<i>Colorado Rio Grande Restoration Award</i>	Matyson Jones
<i>SLV Ecosystem Council Award</i>	Alyssa Rawinski
<i>Colorado Field Institute Environmental Stewardship Award</i>	Matyson Jones
<i>Wildlife & Natural Resources Conservation Award</i>	Camille Rawinski
<i>SLV GIS/GPS Authority Award</i>	Amber Michel
<i>Coldwater Resources Award</i>	Amber Michel Andres Villa
<i>High School Lifestyle Improvement Award</i>	Amada Quintana
<i>Nutrition Award</i>	Shunna Sauls
<i>San Luis Valley Regional Medical Center Award</i>	Ethan Hotz
<i>High School Computer Award</i>	Molly Nehring Sara Nehring
<i>Dr. Frank A & Pauline Moore Memorial Award</i>	Alyssa Rawinski

<i>Jason Romero Memorial Award</i>	Shunna Sauls
<i>Consumer Award</i>	Blaine Gillespie
<i>SLV STEAM Shop Makerspace Award</i>	Ethan Hotz
<i>GeoLogical Solutions Award</i>	Amber Michel
<i>American Meteorological Society Award</i>	Matyson Jones
<i>American Psychological Association Award</i>	Amada Quintana
<i>Mu Alpha Theta Award</i>	Sara Nehring
<i>Intel Excellence in Computer Science Award</i>	Sara Nehring
<i>Stockholm Junior Water Prize</i>	Matyson Jones Amber Michel
<i>NASA Earth Systems Science Award</i>	Molly Nehring
<i>US Metric System Award</i>	Andres Villa
<i>Taking the Pulse of the Planet Award (NOAA)</i>	Matyson Jones
<i>Yale Science & Engineering Association Award</i>	Alyssa Rawinski

MVHS now has had 158 students earn the honor of competing at CSEF!!!

MVHS now has had 58 students earn the honor of attending/competing at ISEF!!!

MVHS has now earned the Large High School Award for Thirty-Eight Consecutive Years!

