

## **2020 SLV Regional Science Fair – Monte Vista High School Results**

After a LOT of hard work, dedication, and months of effort, we have our results from the 71<sup>st</sup> Annual San Luis Valley Regional Science Fair! We were represented by **SEVENTEEN** students this year, and they did a *fantastic* job presenting their research on Thursday, March 5<sup>th</sup> 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, as well as the Large School Award for Elementary and Middle School, demonstrating once again that Monte Vista is **the valley leader** in STEM learning!!

**Wonderful job to ALL the students!!**

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

<b>Urianna Acosta</b>	<i>Do You Need A Hand?: A Robotic Device Designed To Assist Physically Disabled People With Eating.</i>
<b>Joseph Benavides</b>	<i>How Electroplating Works</i>
<b>Blaine Gillespie</b>	<i>Effects of Different Concentrations of Cannabidiol (CBD) on Terrestrial Snails</i>
<b>Keaton Gregg</b>	<i>Light Work: Solar Purification vs. Other Purification Methods</i>
<b>Haley Hicks &amp; Olivia Martinez</b>	<i>Can the CO<sub>2</sub> from Earthworms Help Plants Grow?</i>
<b>Jocelyn Lopez-Duran</b>	<i>Polyethylene: Dissolving and Problem Solving</i>
<b>Paige Lovato</b>	<i>Do You Know Your A-B-C's? The Relationship Between Vitamin Consumption and Health</i>
<b>Marissa Martinez</b>	<i>Anti-E Coli: A Study of Natural and Novel Antibiotics on K-12 E. Coli</i>
<b>Madison Miller</b>	<i>Whoa! You're Stressing Me Out! The Effects of Transportation on a Horse's Stress Levels</i>
<b>Sara Nehring</b>	<i>Predicting Geomagnetic Storms Using Artificial Intelligence</i>
<b>Carlos Ochoa-Marquez</b>	<i>Growing Growing Gone!: A Look into Potato Seed Size and Chemical Leaching into the Environment</i>
<b>Oscar Picciano</b>	<i>Can Virtual Reality Benefit Our Education System?</i>
<b>Camille Rawinski</b>	<i>Is a Busy Life a Happy Life? Analyzing Student Activity Involvement and its Effect on Mental Health</i>
<b>Gabriel Samora</b>	<i>Can Magnets Help Solve Our Energy Needs?</i>
<b>Alyssa Tipsword</b>	<i>The Magic of Magic Water</i>
<b>Andres Villa</b>	<i>Analysis of Gambel's Oak Growth and Influence within Gunnison's Sage-grouse Habitat, Poncha Pass, Colorado</i>

In addition to the honors listed below, **Urianna Acosta, Blaine Gillespie, Keaton Gregg, Madison Miller, Sara Nehring, Carlos Ochoa-Marquez, Camille Rawinski** and **Andres Villa** will represent MVHS at the **65<sup>th</sup> Colorado Science and Engineering Fair (CSEF)** on April 2-4, 2020 at Fort Collins, Colorado!!



And finally, **Urianna Acosta** and **Andres Villa** have qualified as Finalists for the **International Science and Engineering Fair (ISEF)** to be held in Anaheim, California, May 10–15, 2020!!! This is a phenomenal achievement for both of these students and is testament to their hard work and dedication!!



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

### **Summary of MVHS Awards and Recognition - 71<sup>st</sup> Annual SLV Regional Science Fair**

#### **Project Category Awards**

<i>Behavioral Sciences</i>	Camille Rawinski	<b>1<sup>st</sup> Place (CSEF Finalist)</b>
<i>Behavioral Sciences</i>	Oscar Picciano	<b>3<sup>rd</sup> Place</b>
<i>Biomedical Sciences</i>	Marissa Martinez	<b>1<sup>st</sup> Place</b>
<i>Biomedical Sciences</i>	Paige Lovato	<b>2<sup>nd</sup> Place</b>
<i>Botany</i>	Carlos Ochoa-Marquez	<b>1<sup>st</sup> Place (CSEF Finalist)</b>
<i>Botany</i>	Haley Hicks & Olivia Martinez	<b>2<sup>nd</sup> Place</b>
<i>Chemistry</i>	Joseph Benavides	<b>2<sup>nd</sup> Place</b>
<i>Engineering</i>	Urianna Acosta	<b>1<sup>st</sup> Place (CSEF &amp; ISEF Finalist)</b>
<i>Engineering</i>	Keaton Gregg	<b>2<sup>nd</sup> Place (CSEF Finalist)</b>
<i>Environmental Sciences</i>	Andres Villa	<b>1<sup>st</sup> Place (CSEF &amp; ISEF Finalist)</b>
<i>Math &amp; Computer Science</i>	Sara Nehring	<b>1<sup>st</sup> Place (CSEF Finalist)</b>
<i>Zoology</i>	Blaine Gillespie	<b>1<sup>st</sup> Place (CSEF Finalist)</b>
<i>Zoology</i>	Madison Miller	<b>2<sup>nd</sup> Place (CSEF Finalist)</b>
<i>Zoology</i>	Alyssa Tipsword	<b>3<sup>rd</sup> Place</b>

#### **Academic and Presentation Awards**

<i>Best Display Award</i>	Haley Hicks & Olivia Martinez	<b>Honorable Mention</b>
<i>Best Paper Award</i>	Sara Nehring	<b>Honorable Mention</b>
<i>Best Paper Award</i>	Andres Villa	<b>Honorable Mention</b>

<i>Oral Presentation Award</i>	Oscar Picciano	<b>1<sup>st</sup> Place</b>
<i>Oral Presentation Award</i>	Camille Rawinski	<b>Honorable Mention</b>
<i>Originality Award</i>	Urianna Acosta	<b>1<sup>st</sup> Place</b>
<i>Overall "Best of Fair"</i>	Andres Villa	<b>1<sup>st</sup> Place</b>

### **Scholarships**

<i>Adams State University Scholarship</i>	Jocelyn Lopez-Duran	<b>\$1000</b>
<i>Adams State University Scholarship</i>	Gabriel Samora	<b>\$1000</b>
<i>Adams State University Scholarship</i>	Alyssa Tipsword	<b>\$1000</b>

### **Special Awards**

<i>Office of Naval Research Award</i>	Marissa Martinez
<i>Office of Naval Research Award</i>	Sara Nehring
<i>US Air Force Award</i>	Urianna Acosta
<i>Center Soil &amp; Water Conservation District Award</i>	Andres Villa
<i>Rio Grande Water Conservation District Award</i>	Andres Villa
<i>Rio Grande County Watershed Conservation &amp; Education Initiative Award</i>	Alyssa Tipsword
<i>Rio Grande Soil &amp; Water Conservation District Award</i>	Carlos Ochoa-Marquez
<i>Mosca/Hooper Soil Conservation District Award</i>	Andres Villa
<i>Soil &amp; Water Conservation Society of America</i>	Carlos Ochoa-Marquez
<i>Colorado Rio Grande Restoration Award</i>	Andres Villa
<i>SLV Ecosystem Council Award</i>	Carlos Ochoa-Marquez
<i>Colorado Field Institute Environmental Stewardship Award</i>	Matyson Jones
<i>Wildlife &amp; Natural Resources Conservation Award</i>	Camille Rawinski
<i>High School Agricultural Award</i>	Carlos Ochoa-Marquez
<i>SLV GIS/GPS Authority Award</i>	Andres Villa
<i>SLV Veterinary Association Award</i>	Madison Miller

<i>The Nutrition Award</i>	Paige Lovato
<i>San Luis Valley Regional Medical Center Award</i>	Marissa Martinez
<i>High School Computer Award</i>	Urianna Acosta
<i>Dr. Ed Adams Math &amp; Computer Science Memorial Award</i>	Sara Nehring
<i>Jason Romero Memorial Award</i>	Urianna Acosta & Gabriel Samora
<i>SLV Rural Electric Cooperative Energy Award</i>	Gabriel Samora
<i>SLV STEAM Shop Makerspace Award</i>	Keaton Gregg
<i>American Meteorological Society Award</i>	Sara Nehring
<i>American Psychological Association Award</i>	Camille Rawinski
<i>Mu Alpha Theta Award</i>	Sara Nehring
<i>Stockholm Junior Water Prize</i>	Keaton Gregg Carlos Ochoa-Marquez
<i>NASA Earth Systems Science Award</i>	Sara Nehring
<i>Society for In Vitro Biology Award</i>	Marissa Martinez
<i>US Metric System Award</i>	Gabriel Samora
<i>Yale Science &amp; Engineering Association Award</i>	Andres Villa

***MVHS now has had 166 students earn the honor of competing at CSEF!!!***

***MVHS now has had 60 students earn the honor of attending/competing at ISEF!!!***

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

