Summer Science Exploration

By Ryan Pemberton

Asombro was asked once again to participate and deliver hands-on science education as a part of the Las Cruces Public School District’s Challenger Learning Center Summer Camps for incoming 1st-8th grade students in June.

This year, students learned about the characteristics of planet Earth. This presented us with a unique opportunity to pilot test our New Mexico Climate Champions curriculum in a summer camp setting for 3rd-8th grade students.

During the first two weeks of camp, students learned about climate change and energy use. The second two weeks of camp focused on the effects of climate change on the water cycle. We spent an extra day with middle school students for the “action” component of the curriculum. In one day, these students created short informational videos to encourage other New Mexico middle school students to switch to LED light bulbs, unplug energy vampires, put a bucket in the shower while the water warms up, check for leaking toilets, or take other small actions to help fight climate change.

In addition to working with the older campers, Asombro was asked to be a part of their new one-day Micro Explorer Academy for incoming 1st and 2nd graders. Each of the four weeks of camp offered new lessons around the theme of what it would take to grow plants in space! During Week 1, the Micro Explorers learned about carbon dioxide and adaptations plants would need to live in space. Week 2 focused on soil and nutrients, while Week 3 was all about sunlight and temperature. In Week 4, Micro Explorers investigated different ways to help plants conserve water.

These explorers had a great time exploring and collecting data with some cool equipment and learning something new. We hope to see them this school year and hear excited exclamations of “Asombro is here!” when we walk into their classrooms.

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By Stephanie Bestelmeyer

Hundreds of New Mexico students will become experts on climate change and water / energy issues in our state thanks to their teachers’ hard work this summer. Ten teachers from Albuquerque, Shiprock, Bloomfield, Santa Rosa, and Las Cruces attended Asombro’s New Mexico Climate Champions educator workshop on July 17 and 18. The project is funded by a grant to Asombro by the Environmental Protection Agency.

During a busy two-day workshop, teachers learned from Asombro staff as well as guest presenters Dr. Caiti Steele (USDA Southwest Climate Hub), Scott Burns (SunPower by Positive Energy Solar), and Rhonda Diaz (City of Las Cruces Water Utilities).

Teachers learned nine hands-on, inquiry-based lessons that Asombro developed to introduce students to climate change and energy and water issues. They practiced using the supplies from kits of materials that accompany the activities. Each teacher will receive all the supplies they need to implement the activities with their students in the 2017/18 school year.

During the second half of New Mexico Climate Champions, students use their new knowledge to implement student-directed action plans to combat climate change. Teachers saw sample action projects and discussed possible projects their students could implement in their own communities.

Teachers were unanimous in their praise for the workshop. On an anonymous evaluation, one teacher said, “This was the most meaningful workshop / prof. development I have ever been to! I am very grateful to have been selected. ASOMBRO should be state wide! Thank you, thank you, thank you.”

New Mexico Climate Champions workshop participants. Back row: Jason Roback (Albuquerque), Ryan Pemberton (Asombro), Estela Thompson (Santa Rosa), Javier Montejano, Jr. (Las Cruces), Tina Schroeder (Bloomfield), Lynda Hahn (Albuquerque), Elsa Nuñez (Las Cruces), Joe Dan Lovato (Albuquerque). Front row: Cynthia Dumayas (Shiprock), Stephanie Bestelmeyer (Asombro), Lillian Fitzpatrick (Albuquerque), Libby Grace (Asombro), Kristen Bandy (Albuquerque). Photo by Stephanie Haan-Amato.

### Education Programs

**Thanks to your support, Asombro staff provided 538 hours of science for 11,843 students so far in 2017!**

Here are the programs from April, May, and June.

<table>
<thead>
<tr>
<th>Date</th>
<th>Program</th>
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<tbody>
<tr>
<td>3-Apr</td>
<td>Camino Real MS - human impacts</td>
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<tr>
<td>3-Apr</td>
<td>University Hills Elem - animal adaptations</td>
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<td>4-Apr</td>
<td>Hillrise Elem - field trip</td>
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<td>5-Apr</td>
<td>LC Catholic - penny flip</td>
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<tr>
<td>5-Apr</td>
<td>Vista MS - human impacts</td>
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<tr>
<td>6-Apr</td>
<td>J Paul Taylor Acad. - penny flip</td>
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<td>6-Apr</td>
<td>Vista MS - human impacts</td>
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<tr>
<td>6-Apr</td>
<td>Zia MS - Data Jam</td>
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<tr>
<td>7-Apr</td>
<td>Sierra MS - field trip</td>
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<tr>
<td>11-Apr</td>
<td>Camino Real MS - human impacts</td>
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<tr>
<td>11-Apr</td>
<td>Monte Vista - Science Interns</td>
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<tr>
<td>12-Apr</td>
<td>Picacho MS - human impacts</td>
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<td>12-Apr</td>
<td>Picacho MS - human impacts</td>
</tr>
<tr>
<td>13-Apr</td>
<td>Chaparral Elem (GISD) - Rock It</td>
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<tr>
<td>13-Apr</td>
<td>LC Water Festival</td>
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<tr>
<td>13-Apr</td>
<td>Picacho MS - Data Jam</td>
</tr>
<tr>
<td>14-Apr</td>
<td>Homeschool - field trip</td>
</tr>
<tr>
<td>18-Apr</td>
<td>Monte Vista - Science Interns</td>
</tr>
<tr>
<td>19-Apr</td>
<td>J Paul Taylor Acad. - soil organic matter</td>
</tr>
<tr>
<td>20-Apr</td>
<td>NMSU preservice teachers</td>
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<tr>
<td>20-Apr</td>
<td>Nob Hill (Ruidoso) - Rock It</td>
</tr>
<tr>
<td>21-Apr</td>
<td>Sierra MS - human impacts</td>
</tr>
<tr>
<td>24-Apr</td>
<td>Mesa MS - human impacts</td>
</tr>
<tr>
<td>25-Apr</td>
<td>LC Catholic - soil organic matter</td>
</tr>
<tr>
<td>1-May</td>
<td>DACC - greenhouse effect</td>
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<tr>
<td>2-May</td>
<td>Alameda - Science Interns</td>
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<tr>
<td>3-May</td>
<td>Alameda - Science Interns</td>
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<td>3-May</td>
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<td>4-May</td>
<td>Lynn MS - human impacts</td>
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<td>5-May</td>
<td>Alameda - Science Interns</td>
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<td>5-May</td>
<td>Mesa MS - human impacts</td>
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<td>5-May</td>
<td>Sierra MS - human impacts</td>
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<td>11-May</td>
<td>Valley View Elem - animal adapt.</td>
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<tr>
<td>11-May</td>
<td>Alameda - Science Interns</td>
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<tr>
<td>12-May</td>
<td>Highland Elem - skins &amp; skulls</td>
</tr>
<tr>
<td>15-May</td>
<td>BT Wash. Elem - Desert Stories</td>
</tr>
<tr>
<td>15-May</td>
<td>Zia MS - human impacts</td>
</tr>
<tr>
<td>16-May</td>
<td>BT Wash. Elem - Desert Stories</td>
</tr>
<tr>
<td>16-May</td>
<td>TIONM - Sort Like a Scientist</td>
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<td>17-May</td>
<td>Garfield Elem - career day</td>
</tr>
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<td>20-May</td>
<td>LCPS STEAM camp - plants #3</td>
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<tr>
<td>20-May</td>
<td>LCPS STEAM camp - plants #4</td>
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<tr>
<td>20-May</td>
<td>LCPS STEAM camp - water</td>
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<tr>
<td>20-May</td>
<td>El Paso Main Library - fossils</td>
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<tr>
<td>20-May</td>
<td>LCPS STEAM camp - plants #4</td>
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<td>20-May</td>
<td>LCPS STEAM camp - water</td>
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<tr>
<td>20-May</td>
<td>Hatch Public Library - geology &amp; Earth processes</td>
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Get Active to Support Science Education for Local Youth at Our 5th Annual Desert Dash

We can’t wait to welcome runners and walkers of all ages and abilities to the Chihuahuan Desert Nature Park on **November 11, 2017** for our 5th Annual Desert Dash Trail Race fundraiser! Help bring hands-on science programs to local youth by participating in one of our events. We offer a distance for everyone: 1-mile, 5K, 10K, or half marathon (13.1 miles).

**Information and registration:**
www.asombro.org/dash

**15 Years of Butterflies: Our 15th Annual Butterfly Flutterby**

"**Butterflies are self propelled flowers.**"
- Robert A. Heinlein

Asombro shares this appreciation of the winged beauties of the desert. In fact, we appreciate butterflies so much that we have been celebrating them with our Butterfly Flutterby event for 15 years!

Our 15th Annual Butterfly Flutterby event promises to be one of the most fun yet! Learn about current butterfly research at the Radio Telemetry and 1, 2, 3 Count Me booths; cool off with a wet sponge at our Sponge Toss game; and make a fantastic butterfly necklace to take home. Bring the whole family for butterfly-themed fun!

To **volunteer** at the event, please contact Stephanie Haan-Amato at s.haan-amato@asombro.org or 575-524-3334. We could use your time and talents!

**15th Annual Butterfly Flutterby**
**Saturday August 19, 2017**
**9:00 am - 12:00 pm**
**Chihuahuan Desert Nature Park**
**56501 N. Jornada Road, Las Cruces**
**Admission: $3**

**THANK YOU!**
We are grateful to the generous donors in **the second quarter of 2017**, including:

**Turquoise**
Mark Sechrist & Beth Morgan
Susan Vantress

**Peridot**
Richard & Susan Haas

**Obsidian**
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**Western Tiger Swallowtail**
Photo Credit: Wikipedia

**The whole family will enjoy games and activities at Butterfly Flutterby.**
Check Current and Past Weather at the Chihuahuan Desert Nature Park

There’s an easy way to check the current weather at the Chihuahuan Desert Nature Park. Log on to:  
weather.donaanacounty.org

Choose the Chihuahuan Desert Nature Park from the list of sites on the top of the page. You’ll see nearly real-time temperature, relative humidity, wind velocity, and much more.

Click on the boxes to examine data collected since the Nature Park weather station was installed in February 2016.

Use the Doña Ana County Flood Commission’s weather station at the Nature Park to check the weather before you head out to the site.

YES! I want to support the Asombro Institute for Science Education!

❍ Quartz ($15 +)
❍ Obsidian ($250 +)
❍ Gypsum ($50 +)
❍ Peridot ($500 +)
❍ Jasper ($100 +)
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