Asombro Insights

Science education for eager minds

A Quarterly Newsletter

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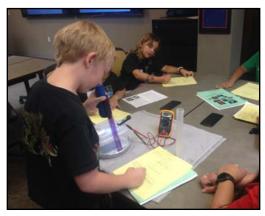
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Summer Science Exploration

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.



3rd-5th grade students explore solar panel efficiency as air temperature increases.

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.



Micro Explorers use a soil moisture probe to monitor water availability in the soil.

New Mexico Teachers Attend Asombro's Workshop

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 handson, 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,"



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.

| 3-Apr Camino Real MS - human impact | s 21-Apr Sierra MS - human impacts | 25-May Mesilla Park Elem - Learning Day |
|--|--|---|
| 3-Apr University Hills Elem - animal | 24-Apr Mesa MS - human impacts | 1-Jun NM STEM Symposium - NM |
| adaptations | 25-Apr Monte Vista - Science Interns | Climate Champions |
| 4-Apr Hillrise Elem - field trip | 26-Apr LC Catholic - soil organic matter | 6-Jun La Semilla Discovery Camp - |
| 5-Apr LC Catholic - penny flip | 1-May DACC - greenhouse effect | animal adaptations |
| 5-Apr Vista MS - human impacts | 2-May Alameda - Science Interns | 6-Jun LCPS STEAM camp - plants #1 |
| 6-Apr J Paul Taylor Acad penny flip | 3-May Alameda - Science Interns | 7-8 Jun LCPS STEAM camp - energy |
| 6-Apr Vista MS - human impacts | 3-May Vista MS - human impacts | 10-Jun Alamogordo Library - animal |
| 6-Apr Zia MS - Data Jam | 4-May Vista MS - bats | adaptations |
| 7-Apr Sierra MS - field trip | 4-May Lynn MS - human impacts | 12-Jun Capitan Library - yucca |
| 11-Apr Camino Real MS- human impacts | 5 - May Alameda - Science Interns | 13-Jun LCPS STEAM camp - plants #2 |
| 11-Apr Monte Vista - Science Interns | 5-May Mesa MS - human impacts | 14-Jun LCPS STEAM camp - energy |
| 12-Apr Picacho MS- human impacts | 8-May Lynn MS - human impacts | 15-Jun Bayard Library - arthropod ID |
| 12-Apr Picacho MS - human impacts | 9-May Alameda - Science Interns | 19-Jun La Semilla Discovery Camp - soil |
| 13-Apr Chaparral Elem (GISD) - Rock It | 10-May Sierra MS - human impacts | organic matter |
| 13-Apr LC Water Festival | 11-May Valley View Elem - animal adapt. | 20-Jun LCPS STEAM camp - plants #3 |
| 13-Apr Picacho MS - Data Jam | 11-May Alameda - Science Interns | 21-22 Jun LCPS STEAM camp - water |
| 14-Apr Homeschool - field trip | 12-May Highland Elem - skins & skulls | 24-Jun El Paso Main Library - fossils |
| 18-Apr Monte Vista - Science Interns | 15-May BT Wash. Elem - Desert Stories | 27-Jun LCPS STEAM camp - plants #4 |
| 19-Apr J Paul Taylor Acad soil organic | 15-May Zia MS - human impacts | 28-Jun LCPS STEAM camp - water |
| matter | 16-May BT Wash. Elem - Desert Stories | 29-Jun Hatch Public Library - geology & |
| 20-Apr NMSU preservice teachers | 16-May TIONM - Sort Like a Scientist | Earth processes |
| 20-Apr Nob Hill (Ruidoso) - Rock It | 19-May Garfield Elem - career day | |

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!



Western Tiger Swallowtail Photo Credit: Wikipedia

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





The whole family will enjoy games and activities at Butterfly Flutterby.

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).





THANK YOU!

We are grateful to the generous donors in the second guarter of 2017.

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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.

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