

Students explore fossil beds

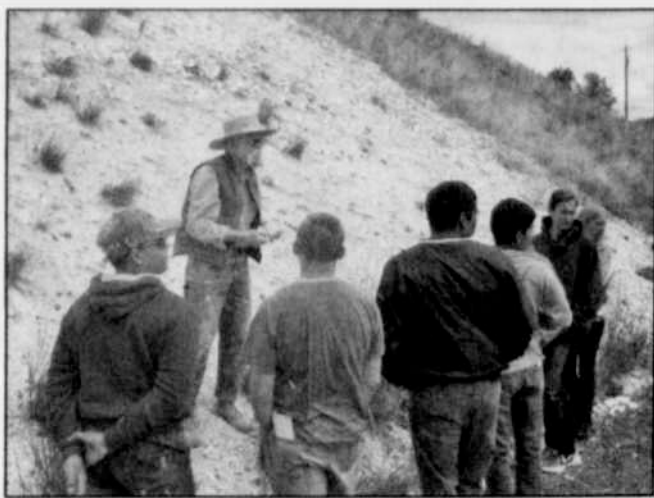
By Orissa A. Burghard
On May 23, the Lone School District's eighth-grade science class took a field trip to the Thomas Condon Paleontology Center in the Sheep Rock unit of the John Day Fossil Beds National Monument. While several students had been to the fossil beds before, most students had not.

Students had the opportunity to hike up through Blue Basin. This unique landscape was carved by erosion through clay-stones and tuff laid down 27 million years ago. Students enjoyed seeing the variety of fossils that had been found in this region.

Jessie Flynn was surprised to find that, "There were 10 different dog species in the world," back then.

Rachel Holland wrote that, "I knew that the area was tropical, but I didn't know just how tropical."

Michelle Ordway, a ranger and paleontologist at the Thomas Condon Visitor Center, led the students through a unique program titled "Ashfall Discoveries." During the two hours, she explained the types of notes that paleontologists take when they find fossils in the field and how fossils are removed and transported back for cleaning and preservation. The students then had the opportunity to search for and excavate fossil replicas in the field, take notes like a paleontologist



Ione's eighth-grade science class recently took a field trip to the Thomas Condon Visitor Center, where students got to dig out their own fossil replicas. Top: Visitor Center staff member Mr. Ediger discusses how to find fossils and the geology of the valley. Pictured are (L-R): Tre' Neal, Mr. Ediger, Markus Smith, Jorge Aguilar, Jason Juarez, Rachael Holland and Ann Reitman. Bottom: The lone eighth-grade science class at the bottom of the Blue Basin. (L-R): Josh Stillman, Markus Smith (back), Shalya Looslie, Hailey Jones, Jessie Flynn, Tre' Neal (front), Jorge Aguilar, Jenna Taylor, Rachael Holland (back), Brenden Thompson (front), Ann Reitman (back), Teddy Goldsworthy and Jason Juarez. -Contributed photos

and record their findings. Next, they had an opportunity to see what it would be like trying to remove the fossils from the rock that encases them.

Ann Rietman said, "It

surprised me how careful they have to be when removing a fossil."

After touring the visitor center and finding "their" fossil on display, students went out to a private fossil digging site, where they were allowed to search for fossils on their own. They created display tags for these fossils using the information they had learned at the fossil beds and spent some time examining them in the classroom the next day.

All in all, Ione's eighth-graders enjoyed a beautiful day outside, learning about the local geology and the ancient history of this amazing part of Oregon.

Area students high in middle school track rankings

South Morrow County rankings following the Umatilla/Morrow MSAA track and field meet are as follows:

- Men:**
100M: 6th, Tommy Bredfield, Heppner, 12.84c
200M: 9th, Tommy Bredfield, Heppner, 26.54c
800M: 8th, Skyler Palmer, Heppner, 5:19.00
1500M: 10th, Skyler Palmer, Heppner, 5:19.00
100M hurdles, 30": 4th, Cord Flynn, Ione, 17.30a
300M hurdles, 30": 2th, Cord Flynn, Ione, 49.04c
4x100 meter relay: 9th, Ione team of Hector Aguilar, Joshua Stillman, Jorge Aguilar and Cord Flynn, 54.84c
Shot put: 8-pound.: 1st, Tommy Bredfield, Heppner, 37' 7.00; 8th, Jorge Aguilar, Ione, 34' 10.00
Discus: 5th, CJ Kindle, Heppner, 99' 6.00
High jump: 5th (tie), CJ



Jessie Flynn of Ione is one of the top track and field middle school athletes in the area. The eighth-grader is currently ranked first in the 300M hurdles in Oregon and seventh in the event among U.S. middle schools. She also plays volleyball, basketball and softball. -Contributed photo

- Kindle, Heppner, 4' 10.00
Flynn, Rachel Holland, 59.66a
Women:
100M: 4th, Jessie Flynn, Ione, 13.84c
800M: 9th, Ann Rietmann, Ione, 3:01.60
300M hurdles - 30": 1st, Jessie Flynn, Ione, 51.44c
4x100 meter relay: 7th, Ione team of Breawna Tee-man, Ann Rietmann, Jessie Flynn, Ione, 14' 7.50
High jump: 1st, Jessie Flynn, Ione, 4' 9.00; 6th, Rachel Holland, Ione, 4' 3.00; 7th (tie), Kaelyn Lindsay, Heppner, 4' 2.00; 7th (tie), Lexi Bray, Heppner, 4' 2.00
Long jump: 3rd, Jessie Flynn, Ione, 14' 7.50

Field trip takes students to the frontiers of science

By Orissa Burghard

Thanks to the Lone Education Foundation, April 17 was a great day for science and the lone ninth-grade physical science class, who enjoyed a fantastic day at LIGO in Richland, WA. Students began the day exploring LIGO, a unique scientific observatory located not far from the Hanford site.

If you Google LIGO, you will read, "LIGO is a 'Laser Interferometer Gravitational-wave Observatory', where scientists seek to detect gravitational waves—ripples in the fabric of space-time. First predicted by Einstein in his theory of general relativity, gravitational waves are produced by exotic events involving black holes, neutron stars



Ione's ninth-grade physical science class took a field trip up to LIGO in Richland and enjoyed an amazing day thanks to an Lone Education Foundation grant. Pictured are (L-R): Oskar Peters, Joe Doherty, Rita McElligott, Daniel Holtz and Michaela Forester. -Contributed photo

and objects perhaps not yet discovered."

After a short movie about the differing theories on gravity, students tested out a number of hands-on demonstrations. These activities all revolved around wave behavior and the physics of waves, motion, force and space. Brandon Peck and Oskar Peterson enjoyed creating a standing wave with a string, the vibrational pattern of which changed when the students applied tension to the string.

A guided tour of the facility allowed students to grasp the amazing length of the arms through which the laser shoots. The project requires amazing levels of control and detail. The level of engineering complexity impressed many students, including Daniel Holtz and Joe Doherty.

After that, students had the opportunity to visit Washington State University's Tri-Cities campus. There, students had a chance to visit the food and environmental quality lab. After short introductions, students got to pick up the pipette themselves. Each student ran their own miniature lab, where they practiced paper chromatog-

raphy and discovered that beta-carotene can be found in spinach leaves, even though they look purely green. Next, students visited the computer technology classroom. They got to experience a short version of a computer programming class, and each person created his or her own computer program.

The class visited the Columbia River Exhibition Museum, where three retired scientists put on a short play, "Three Dead Guys and the Scientific Method." All of the students tried their hand at using the mechanical arm in the museum. Finally, they relaxed at a local park before enjoying a pizza dinner and heading home.

"The best part for me was LIGO," said Zach Irons, a sentiment mirrored many students.

"The best part for me was watching my students engage in creating computer programs and chromatography," said teacher Orissa Burghard, who added, "Thanks to the LIGO staff, James Pratt of WSU Tri-Cities, the CREHST Museum and the Lone Education Foundation for this wonderful and amazing day."

Ione inducts NHR members



The lone chapter of the National Honor Society held its induction ceremony on Monday, May 21. Top: President Mary Rietmann administers the pledge to new chapter members Jaqueline Juarez, Bailey Haguewood, Emily Holland, Joel Stillman, Charlette Burghard and August Peterson. Bottom: Members of the 2012 Ione chapter of the National Honor Society (back L-R) Emily Holland, president Mary Rietmann, Jordan Peterson, treasurer Julianne Carlson, Rebecca Jepsen, JoAnna Patton, Jaqueline Juarez, Joel Stillman, Bailey Haguewood, (middle L-R) vice-president Stacey Halvorsen, Kaytee Burghard, Makenna Ramos, (front L-R) Steven Holland, Evan Rietmann, Zac Orem, secretary Shannon Metcalfe, Charlette Burghard and August Peterson. -Contributed photo

Heppner inducts NHS members



Heppner High School's National Honor Society held its induction ceremony for 2012 on Tuesday, May 1. New members are (L-R): Kyle Harrison, Lilly Sandford, Stephen Thompson, Micha Hintz and Austin Gutierrez. -Contributed photo

Community lunch menu

Elohim Covenant Church members will be serving lunch on Wednesday, June 6 at St. Patrick's Senior Center. The meal will include sausage casserole, sliced tomatoes and cucumbers, applesauce, hot rolls and cookies. Milk is served at each meal. Suggested donation is \$3.50 per meal. Menu is subject to change.

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A BIG THANK YOU!
TO EVERYONE WHO
VOTED IN FAVOR OF THE
RECENT SCHOOL LEVY

YOUR SUPPORT WAS VERY
MUCH APPRECIATED

YES FOR KIDS COMMITTEE:

LARRY MILLS – CHAIRMAN
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HEPPNER ELKS 358
676-9181 "Where Friends Meet" 142 North Main

Ladies Night

Thursday 6/7/12 starting at 6pm

Ham Dinner
with all
the fixings