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## K-16 STEM in the NEWS

### Learning can be fun with EHOVE

Saturday mornings in February at EHOVE Career Center were hopping. This year, about 500 students from surrounding towns and rural areas came together for the youth enrichment programs offered by the school. Led by



EHOVE instructors and local professionals, program offerings ranged from robotics to cooking to carpentry to math. Two sessions of 90-minute classes ran for four consecutive Saturdays in February only. Students chose to attend one or both sessions.

Fourth grader Jenna Hafemeister of Marblehead said she chose the Fun with Nature class because she really likes animals and playing outside. It seems the class was a good fit for her. She was able to take nature photos outside with the group, where she looked hard for animal tracks. She and her classmates also met three turtles and learned how important they are to the environment. ([read more](#))

*Photo above: Mike Fraelich of Wakeman discusses turtles with students in EHOVE's Fun with Nature youth enrichment class. (L-R) Elle Whelan of Sandusky, Collin Singler of Sandusky, and Jenna Hafemeister of Marblehead*

## Community STEM in the NEWS

## BP donates \$225k to provide dozens of engineering and business scholarships

BP donated \$225,000 to The University of Toledo to create the *BP Scholars Program*, devoted to increasing the number of women and minority professionals in business and engineering disciplines. The leadership gift will provide scholarships for both first-year and continuing students. ([read more](#))



*Photo (L-R):*

*Dr. Nagi Naganathan, dean of the College of Engineering; Lloyd Jacobs, president of The University of Toledo; Mark Dangler, president of BP-Husky Refinery LLC in Oregon, OH; and Dr. Thomas Gutteridge, dean of the College of Business and Innovation*

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STEM Opportunities

## Summer Camp Edition 2011

*Encourage your students to become involved in one of these great learning opportunities.*

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### Camp Discovery

**Camp Discovery** is a long-standing Findlay Enrichment Programs (FEP) and Findlay City Schools (FCS) summer camp for 120 students entering grades 2-6 from FCS, Hancock County Schools, and St. Michael School. This science and technology-based camp, held from June 6-10, 2011, allows students who have an affinity and/or interest in science and technology to plunge into a theme-based science world. For more information about camp or financial aid call: **(419) 427-5495** or **(419) 425-8296**. Brochure online at [nwocenter.org](http://nwocenter.org) in the Regional Announcements section.

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### Chemistry Summer Camp at University of Toledo

The Student Chapter of the American Chemical Society at The University of Toledo (UT StACS)

will host a Chemistry Summer Camp for high school students interested in science June 20-25, 2011. The camp enriches the students' knowledge of chemistry and science while learning about college life. Contact [utacs@utoledo.edu](mailto:utacs@utoledo.edu) or Amber Hall at (248) 790-0544. Camp flyer info at: <http://tiny.cc/ACSCampFlyer2011>

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## Toledo Botanical Garden Summer Camps

Join TBG for this hands-on science series of camps.

- **Animal Olympics** (Wednesday, July 13)
- **Super Heroes of the Garden** (Wednesday, July 20)
- **Can You Hear Me Now?** (Wednesday, July 27)

To register contact (419) 536-5566 or visit [ToledoGarden.org](http://ToledoGarden.org)

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## Challenger Learning Center of Lucas County Summer Camps

Join Challenger for exciting STEM experiences **for all ages** in Rocketry I & II, International Space Station, Astronaut Boot Camp, Robotics, Micronauts, Flight Specialists, or Moon Mystery Camp. Cost of camps varies with full and half day sessions. Visit <http://www.challenger-lc.org> for information: Contact Judy Foldvary at (419) 698-1505 to register.

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## Hot Summer, Cool Science Camps at Imagination Station - Toledo

Explore Catapults, Coasters and Cars! or Museum in Motion. Camps run throughout the months of June, July, and August in downtown Toledo. For information visit:

<http://www.imaginationstationtoledo.org/content/2010/12/hot-summer-cool-science-summer-camps/>

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## Toledo Zoo Summer Safari Camps

These engaging camps run throughout the summer. For more information, download the camp packet at: <http://www.toledo zoo.org/edzooocation/safaricampsMAIL.html>

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## Penta Career Center STEM Summer Camp

**June 13-17, 2011** - Explore the possibilities of STEM-related careers with exciting hands-on activities! The camp runs 10:00 a.m. - 2:30 p.m. Mon-Fri at Penta Career Center near Perrysburg. School counselors have registration forms. Open to grades 7-9 students in the following districts: Anthony Wayne, Bowling Green, Eastwood, Elmwood, Genoa, Lake, Maumee, Northwood, North Baltimore, Oak Harbor, Otsego, Perrysburg, Rossford, Springfield, Swanton, and Woodmore.

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## Teacher Workshops

### Ohio Energy Project's "Energy Resources Blitz"

**June 28-29, 2011** - Download information and the application:  
<http://www.ohioenergy.org/pdf/2011-Energy-Blitz-Application.pdf>

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### STAMPS (Science Teaching Advancement through Modeling Physical Science)

Physics and Chemistry Modeling Institute for grades 9-12 educators includes a 2-week summer institute, **July 25-29** and **August 1-5** (80 contact hours), and 6 meetings during the 2011-2012 school year: 6-9 pm on Sept. 6, Oct. 6, Nov. 15, Jan. 12, Feb. 7, and Mar. 8. For more information and to download an application visit: <http://cosmos.bgsu.edu/stamps>

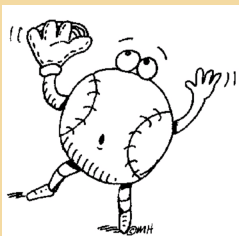
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### Community Resources Workshop

**June 20-24, 2011** - This K-12 workshop will focus on Toledo's heritage of innovation and invention. For information, visit: [www.nwocenter.org/CRWHome.htm](http://www.nwocenter.org/CRWHome.htm)

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### NWO Hands-On Activity



#### A Swing and a Miss: The Mathematics of Baseball

Grade Level: 4-9

### ***What you need:***

- Ruler (one for each team of 2 students)
- Table to record student information

### ***What you do:***

1. Divide the students into pairs. One student holds the ruler by its end between the other student's separated thumb and index finger. (Make sure the ruler is facing the same way for each attempt.)
2. The student releases the ruler and both carefully measure at what increment the second student is able to catch the ruler.
3. Do this ten times and calculate an average "time" (the inch or centimeter mark where the students caught the ruler).
4. All teams then share their data to find an average value for the entire class, for boys only, for girls only, or other parameters. Graph results in a scatter plot.

Download a pdf of the complete hands-on activity by [clicking here!](#)

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## **Research**

***A Learning Cycle for All Students: Modifying the 5E instructional model to address the needs of all learners*** by Emilio Duran, Lena Duran, Jodi Haney, and Amy Scheuermann was recently published in the March 2011 issue of ***The Science Teacher, Vol. 78, No. 3, pp. 56-60.*** **Click here to download complete article (pdf).**

### **STEM Education Updates**

Thank you for your support of NWO, our programs, our activities, and our partners. Please send us updates, press releases, and news of STEM happenings at your school, district, or organization. We are always looking for great STEM education stories to feature in upcoming newsletters.

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