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Advancing science, technology, engineering, and mathematics education for people of all ages.

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K-16 STEM in the NEWS

Kids' Tech University Coming to BGSU

What began at Virginia Tech University as an idea for exciting kids about STEM, is now a grant funded program at Bowling Green State University (BGSU) in Bowling Green, Ohio. Kids' Tech University at BGSU is designed to let kids explore scientific concepts through hands-on activities as they discover more about the world and nature.



Kids' Tech University is a semester-long program for students ages 9-12, who are interested in learning more about science, technology, engineering and mathematics (STEM). Kids' Tech is presented by real scientists answering real questions. The program is made up of four Saturday sessions, January-April of 2012. Each day (9:30 am to 3:30pm) includes a morning interactive session with STEM faculty followed by lunch and an afternoon of related learning activities to give students a real college campus experience. ([read more](#))

Community STEM in the NEWS

Announcing Space 2011 (Space Programs Accelerating Content Excellence) from Challenger Learning Center of Lucas County

The SPACE 2011 program provides eighteen 5th grade classes from Toledo Public Schools with an amazing Challenger Learning Center mission experience. SPACE 2011 is a partnership among The Challenger Learning Center of Lucas County (CLCLC), Toledo Public Schools, Lucas County Educational Service Center and NWO at Bowling Green State University through a grant from the Oswald Supporting Organization and the Toledo Community Foundation. The Oswald Grant funding covers all fees associated with the CLCLC space mission field trip including teacher professional development, curriculum and bus transportation. Building upon the foundations of Challenger Center for Space Science Education, SPACE 2011 aims to improve 21st Century Skills and content knowledge in the classroom through inquiry-based problem solving. ([read more](#))



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STEM Opportunities

NWO Monthly Inquiry Series Professional Development

January Topic: Motivating Students For Success (Motivation Matters: 7 Ways to Ignite, Excite, and Engage 21st Century Learners!)

Presented by: Dr. Jodi Haney of Bowling Green State University

Date and Time: January 19, 2012 from 5:00 - 8:00 PM

Location: Rossford High School, 701 Superior Street, Rossford, OH 43460.

Registration Fee: \$15 for educators, administrators, and graduate students and \$10 for undergraduate students.

The on-site registration fee the evening of the event is \$20 for educators, administrators, and graduate students.

Register online at: www.nwocenter.org/inquiryseries/index.htm.

Imagination Station's Little Scientists Week - January 10-15, 2012

Attention Parents and Preschool & Kindergarten Teachers!



Mark your calendars for Little Scientists Week at Imagination Station in Toledo, Ohio! This special "Sid the Science Kid" themed week is dedicated to our littlest scientists, kindergarten age and younger! Watch your students come to life as they journal their way into discovering the scientist inside with special hands-on inquiry-based activities. PBS's own "Sid the Science Kid" will be making a personal appearance on Friday, January 13.

The excitement will continue throughout the weekend, January 13-15, with hands-on activities, Sid the Science Kid appearances and family workshops brought to you in partnership through **Imagination Station** and **WGTE Public Media**. [Click here to learn more.](#)

Science Field Trips and Courses for Educators Available at Stone Lab!

Science Field Trips at Stone Laboratory <http://stonelab.osu.edu/>, Ohio State University's Island Campus on Lake Erie, will give students in grades 4 -12 the chance to study Lake Erie for a day each year from mid-April through October. Teachers can also work toward their Highly Qualified Teacher certification in Stone Lab courses <http://stonelab.osu.edu/courses/educator/>.

Scholarships <http://stonelab.osu.edu/costs/aid/> are available for weeklong intensive hands-on, field-based classes where teachers earn graduate credit, learn fresh ideas to incorporate science into their classrooms, and often bring home proven lesson plans and labs.

Apply to Stone Lab <http://stonelab.osu.edu/applynow/> or learn more about Science Field Trips <http://stonelab.osu.edu/tripsandtours/fieldtrips/> and register your group today.



Become Part of the 2012 You Be the Chemist Challenge in Northwest Ohio

Teachers of 5th-8th grade are invited to become part of the annual **You Be the Chemist Challenge** sponsored by the Chemical Educational Foundation. Hold a challenge event at your

school or district by having students review the Challenge materials (<http://www.chemed.org/ybtc/challenge/study.aspx>), then take the Chemistry Challenge Exam. Top scorers at your school will go on to compete at the State Challenge Event at Imagination Station in Toledo this Feb/March 2012. The winner at Imagination Station will receive an all expense paid trip to the YBTC National Challenge Competition in Philadelphia this summer.

All schools, public and private, are welcome and encouraged to compete! Contact our YBTC State Challenge Coordinator, Bob Mendenhall, at robert.mendenhall@tps.org or **419-671-8320**. Bob will help you register to have your students compete in your own School Site Local Challenge by taking the Qualifying Chemistry Exam that makes your school eligible for the state competition. The Ohio tournament is sponsored by PVS Chemicals, Inc. **All Qualifying Chemistry Challenge Exams must be completed and the top students selected by February 1, 2012** in order to compete at Imagination Station.

Attend the 2012 eTech Ohio Annual Conference

Register today for the 2012 eTech Ohio Conference, **Next Generation Innovation**. Standard registration is now taking place through Friday, January 6. Don't miss the opportunity to save your place at the 14th Annual Conference, February 13-15 at the Greater Columbus Convention Center. Register at <http://www.etech.ohio.gov/conference/>

Paper Engineering Contest for PreK-6 Grade Classrooms

The Ohio Technology and Engineering Educators Association (OTEEA) is hosting a **paper engineering contest** for students in grades preK-K, 1-2, 3-4, and 5-6. Interested teachers should have their students do a project in class using paper engineering (pop ups, linkages, geometric nets, etc.) that integrates with their curriculum. Winners and runners-up for each division above will have their projects displayed at the Ohio State Fair's Technology Showcase next summer. **The deadline to enter is March of 2012**. Contact Bob Claymier at technologyiselementary@yahoo.com for contest rules and entry.

Upcoming Revised Standards and Model Curricula Meetings

Throughout this school year, the Ohio Department of Education is conducting late afternoon and evening workshops across the state to help educators respond to Ohio's revised academic content standards and model curricula in mathematics and science. **Registration is available in the ODE STARS System** by searching the keywords: Targeted Professional Development. For questions about registration, contact lisa.simpson@ode.state.oh.us.

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NWO Hands-On STEM Activity

Poinsettia Chemistry Make Your Own pH Paper

Ohio Standards Alignment

Grades 9-12 (Current Ohio ACS - Physical Sciences)

Grades 7-12 (Ohio Revised Standards - Physical Sciences)



What You Need (for each group of students):

- Poinsettia plant (several leaves for each group)
- 400 mL Beaker Or 16 oz. Glass Jar
- Boiling Water Or Microwave Oven
- Toothpicks Or Eyedropper
- Scissors
- Coffee Filters Or Filter Paper
- Vinegar
- Baking Soda Solution (2g / 200ml Water)
- Rubber Gloves
- Safety Goggles
- Paper
- Colored Pencils

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

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Share Your Story!

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. Please submit to nwo@bgsu.edu. We are always looking for great STEM education stories to feature in upcoming newsletters.

Join NWO on [Facebook](#)

Find Even More Ohio STEM Education Resources

Visit our STEM clearinghouse, nwostemresources.org, for more STEM activities, programs, and information.

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