

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



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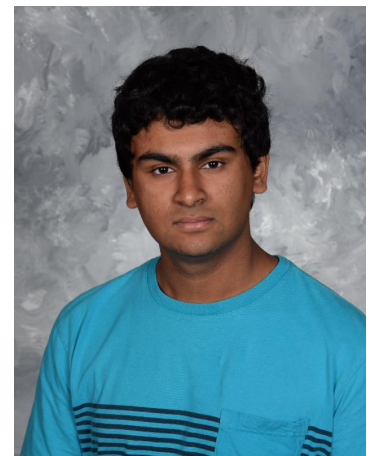
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**Maumee Valley Country Day School Announces Junior Student a Finalist in MIT Competition**

A Maumee Valley Country Day School student, junior Nipun Jayatissa, has been selected as a 2018 finalist for the Massachusetts Institute of Technology (MIT) THINK program, an annual science research and innovation competition for high school students. Rather than requiring students to have completed a research project before applying, THINK instead caters to students who have done extensive research on the background of a potential research project and are looking for additional guidance in the early stages of their project. The program is organized by a group of undergraduates at MIT.



Nipun has been invited to visit MIT, present his proposal, and receive feedback from the MIT faculty and students. During his visit he will attend xFair (an annual student-run technology expo), talk with the MIT faculty, have lab tours, and more. Nipun will also receive a \$1,000 award to purchase research supplies for his project. His proposal, "In Situ Repair of Bone Defects using

[Battelle Innovative Leaders Institute](#)

Engineered Novel Photocrosslinkable Polymer Composite", explores the regeneration of bone defects caused by trauma, fracture, and disease and its clinical challenges for patients to have repaired.

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Maumee Valley is proud to congratulate Nipun on this outstanding accomplishment.

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*Maumee Valley Country Day School, 1715 S. Reynolds Rd., Toledo, Ohio offers education to children from preschool through grade twelve. Their mission is to enable students to become enlightened, compassionate and contributing citizens of our global community, while preparing graduates for their best opportunities in higher education. The school attracts motivated, able students who have a range of academic interests and diverse backgrounds. Its challenging curriculum, student-centered school life and supportive community inspire and equip them for a lifetime of learning.*

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## Community STEM in the NEWS

### STEM in the Park and NWO Honored

The Toledo Local section of the American Chemical Society (ACS) celebrated their centennial during a Chem-tenial Banquet late in 2017 at the University of Toledo with nearly 70 chemists and friends. The Toledo Section of ACS includes the northwest Ohio counties of Fulton, Henry, Lucas, Ottawa, Sandusky, Seneca, and Wood; as well as Lenawee County in southwest Michigan. The Toledo Section has existed since the charter was signed on April 10, 1917. A 100th Anniversary Proclamation, signed by current ACS President Allison Campbell, Ph.D. and 2015 ACS President Diane G. Schmidt, Ph.D., was presented to members of the section by ACS Distric

2 Director Dr. Christine Bodurow of Indianapolis. In addition, two awards were presented. Dr. Andy Jorgensen, retired Associate Professor of Chemistry & Biochemistry at the University of Toledo, received an ACS Salute to Excellence Award for his commitment to improving the public's perceptions of chemistry by serving as a Climate Chemistry Educator/Ambassador (presenting over 170 invited talks) and serving as Section Councilor for nearly 18 years.

The Northwest Ohio Center for Excellence in STEM Education (NWO) at Bowling Green State University was also honored with an ACS Salute to Excellence Award for their commitment to improving the public's perceptions of Chemistry and other STEM fields by organizing and hosting the largest free, family fun, hands-on "STEM in the Park" event at Bowling Green State University for participants from all over Ohio and southeastern Michigan. NWO Director, Dr. W. Robert Midden, accepted the honor on behalf of all who work to bring "STEM in the PARK" to the community every September.

The Toledo Section ACS supports a positive reaction to chemistry in the community by offering a multitude of different outreach events throughout the year to engage the public's awareness of the benefits of chemistry in their lives and community and to increase science literacy. In 2017 alone, Toledo Section ACS provided free chemistry outreach activities to over 2000 youth and adults.



For more information on Toledo ACS: <http://toledosection.sites.acs.org/>

For more information on NWO and STEM in the Park: <https://www.bgsu.edu/nwo/>

*Photo: Jenna Pollock, STEM in the Park Program Manager*

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## STEM Opportunities

### Ohio Junior Science and Humanities Symposium

**March 14-16, 2018 at BGSU**

The Junior Science and Humanities Symposia (JSHS) Program is jointly sponsored by the United States Departments of the Army, Navy, and Air Force, in cooperation with leading research universities throughout the nation. Each year, over 48 JSHS symposia are held throughout the United States. In Ohio, the JSHS is sponsored by BGSU and The Northwest Ohio Center of Excellence for STEM education. Two student finalists and three alternates from the Ohio JSHS program are chosen (all expenses paid) to attend the National JSHS.



For more information, please see our website: <https://www.bgsu.edu/nwo/programs/ohio-junior-science-and-humanities-symposium.html>

## Xcite Learning hosting a Two-day Workshop on Project Based Learning

Xcite Learning will be a hosting two-day workshop at The 577 Foundation in Perrysburg in March. The workshop is specifically designed for grades K-12 educators of ALL disciplines.



### March 12 & 13, 2018

Join us in discovering **Project Based Learning (PBL)** as a powerful and effective inquiry-based learning framework for K-16 classrooms across all disciplines. Find ready-to-use PBL units for your grade level and design your own PBL units. Participants will each receive the BIE book entitled Setting the Standards for PBL along with other ready to use classroom materials. All participants will leave with a draft PBL design for immediate implementation into their classroom. Bring a team and develop an interdisciplinary PBL unit [team discounts available]. [Sign Up HERE!](#)

For this workshop and others please visit: <http://www.xcitelearning.com/join-us-.html>

## Ohio Academy of Science Annual Meeting 2018

The 127th Annual Meeting will be held at the Bowling Green State University on April 14, 2018. Abstracts for posters are still being accepted for undergraduate/graduate students, and academic or industry professionals.

This Just-in-Time Call for Papers will remain open through **February 28** or until space is filled. <https://goo.gl/cLBhAk>



## Battelle Innovative Leaders Institute

The Innovative Leaders Institute (ILI) is now accepting applications for a new cohort of Ohio educators. The ILI is one of the few specialized training programs where leaders of innovative schools can learn from veteran STEM principals.

<https://goo.gl/Dq4iGs>

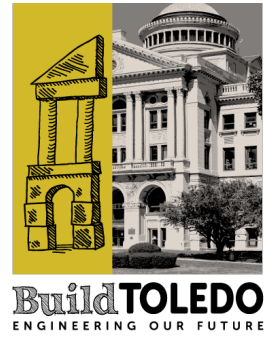
## Imagination Station



## Build Toledo/Engineering our Future

Visitors to this newest temporary exhibition will become city planners, architects, engineers, bridge designers and community artists as they re-imagine the Glass City using lego bricks, K'Nex, Big Blue Blocks and other common everyday objects and ordinary materials.

Please see their website for more information: <https://www.imaginationstationtoledo.org/BuildToledo>



## BGSU Summer Camps

Please see the links below for Summer Camp opportunities at BGSU:



### Robotics

<https://www.bgsu.edu/pre-college-programs/pre-college-certified-summer-academic-programs-and-summer-camps/academic-summer-programs/robotics-camp.html>

### Eat 2 Compete

<https://www.bgsu.edu/pre-college-programs/pre-college-certified-summer-academic-programs-and-summer-camps/academic-summer-programs/eat-2-compete.html>

### Farm 2 Fork

<https://www.bgsu.edu/pre-college-programs/pre-college-certified-summer-academic-programs-and-summer-camps/academic-summer-programs/farm-2-fork-camp.html>

## The Doodle 4 Google Contest is Now Open

Put students' imaginations to work with this contest open to K-12 students until March 2 with the theme "What Inspires You?" The winning doodle will be featured on the Google homepage. Other prizes include college scholarships, a behind the scenes experience with the Google Doodle team, and a \$50,000 Google for Education technology package.



For more info: <https://goo.gl/N7XV2S>

## Help Solve Global Challenges with The Young Scientist Team

Every day 3M scientists collaborate to address some of the world's



biggest challenges but they need your help! Students in 5th-8th grades are invited to submit their big idea to The Discovery Education 3M Young Scientist Challenge for the chance to win life-changing prizes.



Young Scientist Lab

<https://www.youngscientistlab.com/challenge>

## Instructional Technology Integration Partnership (ITIP) Ohio Teacher Grant

ITIP Ohio provides grant opportunities to Ohio teachers to reward excellence in teaching and to promote innovative practices. ITIP invites all Ohio PreK-12 teachers to submit an application. The process is simple: create a video/screencast that showcases an exemplary lesson and demonstrates the innovative ways to use technology with students; summarize the next tech-enhanced lesson to facilitate in the classroom; and explain how to utilize the technology resource that is requested with grant funding.



<https://sites.google.com/a/itipohio.org/itip/teacher-grant>

## Toledo Zoo Open House

Zoo Education staff will host an evening of fun activities for area educators in the new Carson Family Education Center at the Toledo Zoo. Teachers will learn what's new at the zoo, find out about the new program offerings for this field trip season, get a tour of the new education facility, meet a live animal or two, have access to free educational materials and get instant discounts on programs.



Space is limited to the first 100 registrants for this free open house so register early. Teachers can register at <https://www.toledozoo.org/teacher-workshops>. Parking and entry information will be included in the confirmation email sent upon registration.

# DISCOVER

## GLOBAL DAY OF THE ENGINEER

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### APRIL 4, 2018

**Celebrate Engineers and Inspire Wonder on the Global Day of the Engineer April 4, 2018**

Engaging engineering activities can be found on the Discover Engineering website: <https://www.discovere.org/our-programs/global-day>

## Ohio Department of Education Comment Period

**Comment period now open for revisions to Ohio's Learning Standards - Extended in science and social studies**



The Ohio Department of Education invites Ohioans to **submit suggestions through March 12, 2018** as part of a periodic update process for Ohio's Learning Standards in Science and Social Studies - Extended. Through the feedback, the Department can ensure the extended standards reflect the experience that Ohio educators and parents have gained with the extended standards during the past five years since they were first adopted. Through this periodic review, our state aims to better prepare students for the changing expectations of their options after high school.

All Ohioans can share their thoughts about the standards through a survey accessible [here](#) that is open through March 12, 2018.

## Bowling Green's BiG FAB LAB

Offers Multi-Session classes to stimulate participants' brains, build community and engage kids.

Also offering **Open house** every **Thursday 6-8 pm**, Community Meet-ups and



Certification Classes.

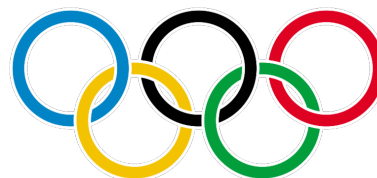
Please visit: [www.BiGFabLab.com](http://www.BiGFabLab.com)

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## NWO STEM Activity

### Science and Engineering of the 2018 Winter Olympic Games

*NBC Learn and NBC Sports, in partnership with the National Science Foundation, offer numerous free resources, activities, and lesson plans that explore the STEM fields behind the science of sports. You can click on the link below to access videos that draw on examples from the 2018 Winter Olympics to illustrate explanations of aspects of science, technology, and engineering that your students may find fascinating and informative.*



<http://www.nbclearn.com/science-of-the-olympic-winter-games>

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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](mailto:nwo@bgsu.edu). We are always looking for great STEM education stories to feature in upcoming newsletters.

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