

STEM-IN'

Indiana STEM News



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Coming Events Of Interest For STEM Educators

January 12, 2017 –Indiana STEM Education Conference

The Purdue University College of Education and Center for Advancing the Teaching and Learning of STEM (CATALYST), the Indiana Department of Education, and the Indiana Commission for Higher Education are sponsoring the 2nd annual Indiana STEM Education Conference. The goal of the conference is to provide a platform for dissemination of best practice in K-12 STEM teaching and learning in Indiana. There will be three strands that organize the conference: K-12 STEM practice, STEM education research, and STEM resources. Astronaut Col Buzz Aldrin will be a special guest speaker.

For more information and to register, click on https://www.conf.purdue.edu/landing_pages/stem/index.html

General Aviation Manufacturers Association Challenge – registration ends January 20, 2017

The General Aviation Manufacturers Association (GAMA) recently announced that registration is open for the fifth annual GAMA/Build A Plane Aviation Design Challenge, a competition to promote Science, Technology, Engineering, and Mathematics (STEM) skills among U.S. high school students using aviation.

High schools or after-school programs that register for the Aviation Design Challenge will receive **FREE** Fly to Learn curriculum and software powered by X-Plane to learn aerodynamic and aviation principles. Using that knowledge, teams will then compete in a virtual fly-off.

To learn more, go to <http://www.gama.aero/advocacy/aviation-education/stem>

April 10-11, 2017 – Indiana Summit on Out of School Learning

Registration is now open for the annual gathering of the many involved in and support out-of-school time learning

<http://www.cvent.com/events/2017-indiana-summit-on-out-of-school-learning/event-summary-62711324d7ce43ba836fae39f35c02a2.aspx>. STEM education will be a major component of the event's programming.

Like last year, the Summit will be held in the Indiana Convention Center in downtown Indianapolis.

Anyone interested in a sponsorship should contact Debbie Zipes, dzipes@indianaafterschool.org

May 24-26, 2017 – U.S. News STEM Solutions National Leadership Conference

Learn more about this national STEM conference at http://usnewsstemsolutions.com/2017-conference-registration/?utm_medium=email&sslid=MzMyMTWYND C2NLYEAA&sseid=Mza3NLOWtLQwBwA&jobid=974a92c5-47a4-42ae-8675-d56c69cc5cc5

Grant Opportunities for STEM Educators

American Honda Foundation Grants

The American Honda Foundation's funding priorities are STEM education, the environment, job training and literacy. Nonprofits, public school districts, private/public elementary and secondary schools are eligible to apply. Funding deadlines are February 1, May 1, August 1, and November 1 each year. The maximum award is \$75,000. http://www.honda.com/about?id=honda_foundations

Afterschool Alliance list of STEM funding

<http://www.afterschoolalliance.org/STEMfunding.cfm>

STEMfinity STEM Grants Listings: Indiana

<http://www.stemfinity.com/stem-grants-indiana>

Indiana Youth Institute Professional Development Grants and FREE proposal reviews

IYI offers professional development grants of up to \$750 to help youth-serving professionals pay for the registration cost and hotel or travel costs associated with a professional development opportunity. Submit an

application by the tenth of the month to receive a decision by the first of the following month. More [HERE](#)

Also, if you're applying for a grant, submit your proposal to IYI, and an IYI consultant will offer you free feedback to strengthen your submission. More [HERE](#).

Lockheed Martin: Grants for Education

Lockheed Martin provides grants for K-16 Science, Technology, Engineering and Math (STEM) Education. This includes Lockheed Martin's K-12 STEM Education Initiative, Engineers in the Classroom, as well as STEM-focused curricular and extracurricular programs that provide employee engagement opportunities in a community in which Lockheed Martin has employees or business interests. Maximum award: varies. Eligibility: 501(c)(3) organizations that deliver standards-based science, technology, engineering and math (STEM) education to students in K-16. Amount: Varies Deadline: Rolling. More [HERE](#).

Best Buy Foundation

The mission of the Best Buy Foundation is to provide teens with places and opportunities to develop technology skills that inspire and inform their future education and career choices. To that end, the foundation, through its Community Grants program, will award grants of up to \$10,000 to local and regional nonprofit organizations working to provide teens with places and opportunities to develop technology skills for a twenty-first-century economy. Examples of program activities include computer programming, digital imaging (photography, graphic design, videography), music production, robotics, and gaming and mobile app development. More info [HERE](#).

Connect a Million Minds (Time Warner)

Connect A Million Minds supports include after-school STEM programs, mentorship programs that inspire the pursuit of STEM education and careers, STEM-related competitions, visitations to technology companies and labs, and apprenticeship programs. No deadline. For more information, go to:

<http://www.connectamillionminds.com/request-support>

Resources for STEM Educators

Next Generation Science Standards: A primer and resource guide for afterschool educators

The Next Generation Science Standards (NGSS) offer a powerful new vision for American science education for the 21st century. NGSS has already been adopted by 17 states, as well as many more individual schools and districts. This resource will help you learn what's relevant for afterschool providers, and help you develop a strategy for engaging with the new standards. More info [HERE](#).

Harnessing the Power of Explanation

Given STEM education's valuable role, it's important for afterschool professionals to convey the benefits. Afterschool educators often have informal conversations with staff, teachers and the students' families-and every interaction could potentially make the case for STEM. Learn how to communicate confidently, competently and effectively, with our Harnessing the Power of Explanation guide. More info [HERE](#).

The Afterschool STEM Hub

This collaboration of out-of-school-time program leaders and stakeholders to provide coordinated messaging and communications that impact advocacy and policy and help ensure the important place of informal, afterschool and summer programs in the STEM learning ecosystem. For more information on this initiative (including the list of participating organizations) please visit www.afterschoolstemhub.org

Indiana Department of Education STEM School Certification Program

For details on the process to earn the IDOE designation of a STEM School, follow [THIS LINK](#). Note that, to be certified as an IDOE STEM school, a school must offer an afterschool program in STEM.

The Connectory

This free online collaboration tool gives STEM program providers a chance to find partners based on interests as well as a platform to showcase STEM opportunities to families. Families, in turn, have a free, go-to resource to

EVERY student **EVERY** school **EVERY** day

connect the children in their lives to STEM learning opportunities in their community.

<http://www.theconnectory.org/>

Center for Advancement of Informal Science Education

<http://us10.campaign-archive2.com/?u=b26a454f84153046c69fb4954&id=8fbaa3134a&e=eae25da18>

Level Up Village

Level Up Village (LUV) delivers pioneering Global STE(A)M enrichment courses that promote design thinking and one-to-one collaboration on real-world problems between K-9 students in the U.S. and partner students in developing countries. Launched in 2012, LUV runs courses during school, after-school and in the summer at more than 100 U.S. schools in 20+ states, with 30+ Global Partner organizations in more than 20 countries. For a quick video on LUV [click here](#). LUV courses range from 3-D printing, to coding video games and animations, to science-centered classes in chemistry and biology through dissection. For a complete course list go to:

<http://www.levelupvillage.com/courses/>

Statewide STEM Coalition Meeting The next Statewide STEM Coalition meeting, combining the STEM Action Coalition and the Afterschool STEM Task Force, will be held on Friday, November 18, 2016, from 10:00AM until 3:00PM. The location will be the Lilly Corporate Center in Indianapolis. Our keynote speaker will be Ivy Tech President Sue Ellspermann.

Please use this link to register. There is a preliminary agenda at this site, and you can also detail any dietary restrictions and sign up for the optional Lilly Historical Tour. Registration closes November 16.

<https://www.eventbrite.com/e/indiana-stem-taskforce-fall-2016-meeting-tickets-28771647773>

About the STEM-IN' Newsletter This newsletter is published 12 times per year by the I-STEM Resource Network and the Indiana Afterschool Network. For inquiries and news contributions please email: istem@istemnetwork.org.

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EVERY student **EVERY** school **EVERY** day