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Coming Events Of Interest For STEM Educators

Duke Energy Academy at Purdue – registration closes January 16, 2017

The Duke Energy Academy at Purdue University, which will be held June 18-24, 2017, is an immersive program for high-achieving high school juniors and seniors and secondary science teachers. During the week-long course on STEM-related energy topics, participants will be provided with resources and incentives to inspire both students and teachers in sustainable energy solutions. The program is free to all participants and teachers will receive a \$400 stipend on successful program completion. To learn more about the program and to apply to participate, click on <https://www.purdue.edu/discoverypark/energy/programs/energy-academy/apply.php>

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

April 21, 2017 – 4th Annual Eco-Science Fair, Indiana State Museum

Innovative Hoosier students are invited to get involved in becoming the solution to global climate issues. Students can submit science fair projects on a range of topics including aquaculture, vermiculture, composting, social awareness, urban farming, alternative fuel, and recycling initiatives in their school and community. For more information, contact Katelyn Coyne, Public Programs Developer, kcoyne@indianamuseum.org. To fill out an application to participate, visit www.indianamuseum.org/fieldtrips .

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=MzMyMTWyNDC2NLYEAA&sseid=Mza3NLOWtLQwBwA&jobid=974a92c5-47a4-42ae-8675-d56c69cc5cc5

June 19-22, 2017 – Magnify Learning Project Based Learning Training

Get four days of Project-Based Learning training for only \$350/person! Per person fees for groups of 5 or more will be \$315. Three Magnify Learning PBL workshops will be held simultaneously June 19-22 in three Indiana locations: Columbus, Indianapolis, and Plymouth. Sessions will be from 8:00-3:00 PM each day. For more information about the June 2017 Magnify Learning Open Workshops, go to:

http://magnifylearningin.org/june-workshops/?mc_cid=94e54fd5ad&mc_eid=30e3de03f6

Grant Opportunities for STEM Educators

Afterschool Alliance list of STEM funding

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

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_foundation

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 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](#).

Captain Planet Foundation supports high-quality educational programs that engage children and youth in active hands-on projects that improve the environment in their schools and communities. Grant amount: \$500 - \$2,500. Preferential consideration for requests with at least 50% matching or in-kind funding. Deadline: January 31, 2017. Learn more [HERE](#)

Connect a Million Minds (Time Warner)

Connect a Million Minds supports 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. For more information, go to:

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

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](#).

STEMfinity STEM Grants Listings: Indiana

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

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

Voya Foundation The Voya Foundation is accepting applications from organizations that provide innovative and experiential K-8 STEM learning opportunities that promote an early interest in STEM career fields and improve teachers' capabilities in STEM; or that provide financial education curriculum to grade 9-12 students focused on navigating major financial milestones such as student debt, credit, home ownership, financial products and services/financial capability, and family needs.

[Apply now.](#)

World of 7 Billion Student Video Contest

Students will create a short video (up to 60 seconds) about human population growth that highlights one of the following global challenges: Climate Change, Ocean Health, Rapid Urbanization. The contest is open to all high school and middle school students (6th -12th grade) worldwide and the deadline for submissions is February 23, 2017. More info [HERE](#).

Resources for STEM Educators

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

Center for Advancement of Informal Science Education

CAISE provides resources, news and connectivity for informal STEM learning designers, evaluators and researchers. With an expanding multiplicity of informal STEM learning experiences and settings our antennae are always attuned to insights that can be applied to media-making, exhibit and program development, event and game design and beyond. Check out this blog piece which shares a few of the stories in 2016 that they found either inspiring or thought-provoking. [Learn more...](#)

Computer Science in OST--Challenges & Opportunities Report

A diverse group of stakeholders-including educators, business and industry, policy makers, and parents agree that computer science education is vital for kids to become the creators and innovators for the next generation, making technology work for them and designing solutions for their communities. Afterschool Alliance asked the OST field what they thought about computer science education-and responses showed overwhelming interest! Almost 60 percent of respondents currently offer computer science to their students, or had offered it in the past. Despite this strong interest, OST providers indicated some big challenges to offering computer science to their students, especially finding qualified educators to teach it, securing funding, and accessing necessary technology. Read more [HERE](#).

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 connect the children in their lives to STEM learning opportunities in their community. <http://www.theconnectory.org/>

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](#).

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.

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

The Indiana State Museum Offers free museum admission to groups of 10 or more K-12 students visiting from 21st Century Community Learning Centers during school breaks. ISM can help K-12 students meet Indiana Academic Standards in physical science, earth science, life science and STEM-related standards. Research shows that encounters with original artifacts, performances, and hands-on activities, all available at the Indiana State Museum, reach children who do not respond well to traditional teaching methods. Research further demonstrates that children who visit museums have higher achievement in math, reading and science. Please contact Sarah Rapp-Johnson at:

SRappjohnson@indianamuseum.org

for more information, or visit:

<https://www.surveymonkey.com/r/ISM21stCentury>

to register for a free field trip.

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:

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

Matific A unique approach to teaching K to 6 math using hands-on and interactive mini-games, these immersive bite-sized apps for tablets and personal computers are based on a modular and progressive spiral learning system. For a free 30-day Matific trial, [click here](#) and register: www.matific.com. To schedule a free webinar to learn how Matific can be

customized, [click here](http://meetme.so/SeanTiernan) to request a webinar demo:
<http://meetme.so/SeanTiernan>

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](#).

National Science Foundation (NSF) Project Results All National Science Foundation (NSF) awards that have received funding since 2010 are required to submit a Project Outcomes Report at the completion of their project. This article explains how to locate Outcomes Reports on the NSF website. [Learn more...](#)

The STEM Connection This Indianapolis-based organization offers opportunities where STEM (science, technology, engineering and math) learning happens through hands-on activities and exploration of the natural world. Go to theSTEMconnection.org for information about their events and programs.

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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