IDAHO STEM ACTION CENTER

WELCOME!

SECTIONS:

- **Welcome!**
- **Professional Development**
- **Upcoming Events**

ACTION ITEMS:

1. **Apply** for INTEL ISEF Educator Opportunity!

2. **Apply** for a variety of educator PD opportunities!

3. **Follow us on Facebook** for STEM resources, grants, news, and more!

INTEL INTERNATIONAL SCIENCE & ENGINEERING FAIR UPDATE

The STEM Action Center is proud to sponsor the high school Intel International Science and Engineering Fair (Intel ISEF) for the 2016-2017 school year. Intel ISEF is one of the premier national student science and engineering competitions. Idaho does not currently have a statewide science and engineering fair that qualifies students for the national competition. As a result, Idaho students miss out on $4 million dollars in potential scholarships.

Are you a high school educator interested in participating? Find out how to apply for support below in the Professional Development section.

Professional Development

INTEL ISEF FOR EDUCATORS

Sixty Idaho public high school teachers will be selected to participate in a two day professional development workshop and receive guidance on how to embed Intel ISEF projects into current classroom instruction.

If selected, the educator's school will receive $3,000 to be used for participation in Intel ISEF. Educators will use the funds to travel to their local university (U of I, ISU or BSU) to attend the two day professional development in August 2016. Educators can use the remaining funds to purchase classroom materials for student projects. Funds will also be used for the educator to return to their regional fair with at least three student projects to compete in the spring 2017. Funds can also be used for educator stipends and/or professional development credits.

FOR STUDENTS
Students will be able work with their teacher to purchase materials necessary to participate in the competition. Educators and students will also have access to virtual mentors to support them on their projects. Funds should be used for at least three student projects to travel to the local fair (see dates below).

The top three student projects at each local fair will have the opportunity to attend the national Intel ISEF in May and represent Idaho. All expenses for attendance at nationals will be covered by the Idaho STEM Action Center.

IMPORTANT DATES:
- Educator applications DUE Thursday June 16, 2016 at midnight MST.

Register Here

- Educators notified of selection by Friday June 24, 2016.

- Educators attend regional professional development (CEC available onsite)
  - Boise State University: PD date August 1 – 2, 2016
  - Idaho State University: PD Date August 4 – 5, 2016
  - University of Idaho: PD date August 8 – 9, 2016

- Student project work: September 2016 – February 2017

- Intel ISEF Fair Dates
  - Boise State University: Saturday, Feb 18, 2017
  - University of Idaho: Saturday, March 4, 2017
  - Idaho State University: Saturday, March 11, 2017

- Intel ISEF Nationals: Los Angeles, Ca, May 14 – May 17, 2017

CODE.ORG OPPORTUNITY

Idaho Digital Learning Academy in collaboration with the Idaho Technology Council are actively seeking participants who would like to join the second cohort of free professional development for the 2016-2017 school year. Code.org is providing a $15 per hour stipend for each hour of completed training for participants accepted into the program.

Teachers can select from the following professional development opportunities:

Middle School:
- Computer Science in Science - July 12 & 13: Location TBD
- Computer Science in Algebra - July 7 & 8: Location TBD

High School:
- Computer Science Principles - July 18-22: Salt Lake City, UT
- Exploring Computer Science - June 20-24: Boise, Idaho

COMPUTER SCIENCE PRINCIPLES VIA MUSIC, ART & POETRY

June 21-24, 2016 at Boise State University

This is a four-day CS Principles via Music, Art and Poetry workshop for high school teachers to learn about the seven "big ideas" in the AP CSP curriculum identified by the College Board: Creativity, Abstraction, Data and Information, Algorithms, Programming, Internet, and Global Impact.

Participants: Secondary certified teachers. Middle school teachers will be considered if space permits. No prior experience with computer science is needed. The workshop is based on interactive activities and projects. Attendees of this workshop will gain hands-on experience with the creation of music, art and poetry using CS Principles, and learn about ways to increase student engagement in the classroom by modeling active learning techniques.

Participants will learn:
- The seven Big Ideas in Computer Science and the five Computational Thinking Practices.
- How to setup and use EarSketch and Processing to build and run applications.
- How to develop music using EarSketch.
- How to apply the CS Principles to develop or analyze music, art and poetry elements.

Stipends, travel awards, and food are covered thanks to a Google CS4HS grant.
To register, contact Kristi Lakatos, Coordinator, Boise State Concurrent Enrollment Program (208) 426-3294 or Email: klakatos@boisestate.edu

IDAHO TEACHER WORKSHOP: SUPER CONFERENCE

October 6-7, 2016 at Timberline High School with strands for ALL grade levels in Math, Science, Social Studies, History, English, and GATE.

Interested in submitting a proposal to present? They are still in need for many more proposals in science for the Super Conference on Oct 6 and 7th 2016 (State Workshop days). If you have an idea to present for the science strand, please take a few minutes to submit a proposal on the Super Conference site (http://stem.boisestate.edu/superconference/).
Proposals are due by June 30th.

CYBER INNOVATION CENTER

The Idaho State Department of Education is pleased to announce a partnership with the Cyber Innovation Center for the summer of 2016. Up to 20 educators teachers and administrators from around the state will be eligible to travel to Dallas for the 2016 Education Discovery Forum. Besides the great opportunity to work deeply in the subject matter of your choice, it will also allow collaboration and networking with educators from around the country.

Information about the EDF including registration information and descriptions of each thread can be found here. [Note: this year's EDF will feature Cyber Literacy, Cyber Literacy II, Physics, Advanced Math for Engineering and Science, and Computer Science.]

The Cyber Innovation Center is paying for registration and up to $400.00 toward flights to Dallas. The SDE will pay for all hotel rooms at the Embassy Suites.

Cost to participants: Your costs would be ground transportation to the hotel, dinners, and the amount your plane ticket may exceed the $400.00 travel grant. The SDE also requires a one to two page refection on how this event may inform your instruction or be used by you in your classroom or school in the coming school years.

If interested please contact, Scott Cook at scook@sde.idaho.gov.

COMPUTING BY DESIGN
Boise State University is proud to announce the "**Computing by Design**" workshop lead by the National Center for Women and Information Technology (NCWIT).

Attention Middle and High school _counselors_, _administrators_ and _teachers_ who **help influence students career and educational choices**.

Please RSVP if you would like to attend. Use this link to view the _Save the Date Invitation._ This RSVP is to obtain a _preliminary headcount_ for planning purposes.

Workshop Summary:
Date: Friday, *September 23, 2016*
Time: 8:30am - 4:30pm
Location: Top of the Zions Bank - Idaho Room (8th and Main Street Boise, ID 83702)
Workshop Cost: Free

2016 I-STEM REGISTRATION OPEN

2016 i-STEM "Innovating the Future" Summer Institutes for TEAMS of educators and administrators are being held at six of Idaho's i-STEM Centers, providing a choice of strands at the institute in or near your educational region.

i-STEM Regional Institute Dates:
Lewis & Clark State College, Lewiston: June 20-23
North Idaho College, Coeur d'Alene: June 20-23
Idaho State University, Pocatello: June 21-24
Eastern Idaho Technical College, Idaho Falls: June 27-30
College of Southern Idaho, Twin Falls: June 27-30
College of Western Idaho, Nampa: June 27-30

Register Here

Upcoming Events

FabSLAM 3D Design and Fabrication Competition Winners to Attend National Maker Faire!

Idaho FabSLAM 2016 was a huge success! Over 75 students (grades 5-8) and 26 mentors from around the state converged on the Discovery Center of Idaho for the inaugural 3D Design and Fabrication Showcase event held May 14th. The FabSLAM Showcase was the culmination of a project that began in March when the STEM Action Center and the Digital Harbor Foundation trained 20 teachers from 15 schools throughout the state as coaches and equipped them with 3D printers. For this year's theme, each team identified an issue in their community that could be addressed using 3D printing and digital fabrication and then developed and documented a product to help resolve it. At the FabSLAM Showcase, the teams presented their solutions to a panel of five judges and a public audience for review and feedback. The winning teams

received over $1,250 in cash prizes to help continue funding STEM learning in their schools.

From Nampa, Lone Star Middle School's G T.E.A.M. took first place with its Homeless Emergency Life Pack, or H.E.L.P. The wheeled suitcase can be turned into a one-person shelter. The team also earned the Students' Choice Award based on votes from their peers. You can view the team website and learn all about the project.
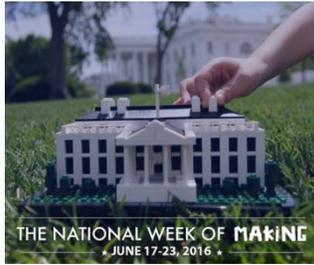

Exciting UPDATE!!!

The GTEAM will be representing Idaho at the National Maker Faire in Washington D.C. during the Week of Making. The team has created a Go Fund Me site to help them with travel costs.

In second was the ElemEngineers from Boise's Hawthorne Elementary School — the only elementary school participating in FabSLAM Idaho this year. The team created a trap that hangs on fruit trees to lure and kill fruit flies that destroy soft-skinned fruit crops. Check out this team's design cycle at their website.

Coder Bunnies, the third-place team from Kuna Middle School, created a filtration system to remove trash and sediment from canal water before it's used for irrigation. Read about the process this team used to create a viable filter here.

Other participating schools included Emmett Middle School in Emmett, Jefferson Middle School in Caldwell, Jerome Middle School in Jerome, Kimberly Middle School in Kimberly, Lakeside Junior/Senior High School in Plummer, Marsing Middle School in Marsing, Middleton Middle School in Middleton, Vera C. O'Leary Middle School in Twin Falls, Vision Charter School in Caldwell, West Middle School in Nampa, and Vallivue Middle School in Caldwell. Click on each of the links to access the team's website and read more about their projects.

NATIONAL WEEK OF MAKING

To celebrate this year's [National Week of Making](#) (June 17-23), the White House will be announcing new actions by organizations and recognizing individuals who are making significant contributions to Making and the Maker Movement.

Help us celebrate that week by sharing stories of the countless leaders, innovators, entrepreneurs, and educators who work daily within their local communities across the country. [Get Involved](#)!

In addition, having hosted the first-ever White House Maker Faire in 2014, the White House remains interested in learning about efforts by companies, foundations, schools, and non-profits to expand the resources available for young makers and maker entrepreneurs, and foster the development of advanced manufacturing in the US.

[Submit](#) your new activities, potential commitments, and other thoughts to help promote making in your community or all across the country.

Finally – consider signing the Maker Promise
Hundreds of schools around the country have already signed the Maker Promise. The Maker Promise is more than just a commitment; it's a movement — to enable the next generation of students to be designers and inventors, not just consumers of things. Join the movement by signing the [Maker Promise](#) today. It only takes a moment to sign up!

The Center is continually looking for educators and industry partners to help carry out the dictates of our legislation. If you are interested in partnering with us and/or serving as a mentor, please visit [stem.idaho.gov](#) and fill out an interest form.

Our mailing address is:
Idaho STEM Action Center
304 North 8th Street
Suite 444
Boise, ID 83720-0032

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Contact Information
To contribute or provide suggestions, please contact [Erica](#) at 208.332.1725 or 208.994.2573.

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