

# Board Meeting

## May 14, 2019



**IDAHO**  
**STEM**  
ACTION CENTER

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**Room WW17**

**1:00 - 4:00 pm**

# Approval of March Board Minutes

- **Request for Motion to Approve Minutes**





# Idaho STEM AC Statutes that Guide the Current Strategic Plan

- **Idaho Code 67-823:** Established the Idaho STEM Action Center
- **Idaho Code 33-1633:** Computer Science Initiative
- **Idaho Code 33-4701:** STEM School Designation
- **Idaho Code 33-1634:** Computer Science for All
- **Idaho Code 33-523:** Established a STEM Diploma



# As Legislated in Idaho Code

(Idaho Code §67-823, §33-1633, and §33-4701)

- Support high-quality STEM and CS **professional development** for educators
- Distribute **grants** to students, educators, and communities
- Engage **industry** to support STEM/CS education outcomes
- Support student STEM and CS **competitions**
- Support STEM and CS **pilot projects**
- Serve as a **resource** center for instructional materials and best practices
- Support **traditionally underrepresented population** in STEM and CS
- Identify and recognize high-quality **STEM Schools**
- **Work well with other** agencies and partners!



# Review of Other Strategic Plans

- STEM AC Strategic Plan
- Idaho CS Strategic Plan (as guided by code.org)
- Federal/White House STEM Strategic Plan (effective 2018 – 2023)
- OSBE STEM Strategic Plan (effective 2013 – 2018, expired)



# Idaho STEM Action Center



Engineering innovative STEM opportunities for educators, students, communities, and industry to build a competitive Idaho workforce and economy.





# Idaho STEM Action Center



Connecting STEM education and industry to ensure Idaho's long-term economic prosperity.



# Idaho STEM Action Center Tag Line

**STEMPOWERS**





# Idaho STEM Action Center Brand/Identity/Reputation

Governor:

Legislators:



# Idaho STEM Action Center Brand/Identity/Reputation

Businesses/Industry:

Other Donors (ie individuals and grants):





# Idaho STEM Action Center Brand/Identity/Reputation

Educators:

Students:



# Idaho STEM Action Center Brand/Identity/Reputation

Communities:





# Legislated Goals of STEM AC

- **GOAL #1:** Coordinate & facilitate implementation of STEM programs throughout Idaho
- **GOAL #2:** Align STEM education and workforce needs throughout Idaho
- **GOAL #3:** Increase awareness of STEM throughout Idaho





# **CURRENT GOAL 1:**

Coordinate and facilitate  
implementation of STEM programs  
throughout Idaho





## **CURRENT GOAL 2:**

Align STEM education and workforce needs throughout Idaho



# **CURRENT GOAL 3:**

Increase awareness of STEM  
throughout Idaho







# **Goal 1: Coordinate and facilitate implementation of STEM programs throughout Idaho**

## **Current Objectives:**

- Create/identify and fund STEM opportunities for Idaho students
- Identify and facilitate the delivery of high-quality STEM and CS PD
- Develop new and expand existing high-quality STEM AC grant programs for educators and the community at large
- Collaborate and leverage other state-level partner organizations (OSBE, SDE, CTE, WDC)



## **Goal 2: Align STEM education and workforce needs throughout Idaho**

### **Current Objectives:**

- Engage industry to support STEM education outcomes
  - Support industry-led initiatives that focus on workforce development and industry needs
  - Create opportunities for students and educators to partner with local businesses
  - Fund and support CS initiatives, programs, events, trainings and other promotions throughout the state
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# Goal 3: Increase awareness of STEM throughout Idaho

## Current Objectives:

- Communication about STEM and CS initiatives, programs, events, trainings, and other promotions throughout the state
  - Increase access to STEM/CS opportunities for students, educators, and communities that represent traditionally underrepresented populations in STEM/CS
  - Collaborate with OSBE, SDE, CTE, WDC, higher ed, industry, and national partners to enhance communication related to STEM
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# One Unified Vision for STEM

## Forming a STEM Ecosystem for the State

- Would unify all the plans (STEM AC+ CS, OSBE, White House)
  - Would serve as a visionary guide for STEM education and outcomes
  - Would be loosely modeled after the White House STEM Strategic Plan
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# Partner Update: Chobani



# **Satisfying Requests from Districts/Schools: Ideas?**

- Solution for FY20: Service provider fee for all opportunities, amount TBD in June
  - Discussion for FY21: Possible development of service provider model connecting schools/districts with teacher leaders throughout the state
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# GOAL #1: Coordinate & facilitate implementation of STEM programs throughout Idaho

- **Professional Development** – Next slide
- **Grants:** Camps & Out-of-School Programs, Family/Career STEM Events, VR4Ed, JBC, Botball



- **Competitions:** Jr. BotBall
  - **Awareness Events:**
    - STEM on the Blue (May 3);
    - STEM Day at the Fair (Aug 16)
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# Professional Development Updates

- i-STEM Summer Institutes in six regions with SDE
  - 34 strands with 433 participants
  - All SDE-sponsored science standards strands are filled
- STEM Leadership Training with OSBE (Teacher and Admin)
- Code.org PD with IDLA
- UI Dual Credit Training
- Virtual Reality PD and Resources
- Drones PD and Resources
- JBC and Botball PD and Resources





# Idaho Science and Engineering Fair

## Updates for the 3 Regional Fairs

	2017	2018	2019 (actual)
PROJECTS	78	118	246
TEACHERS	14	22	37
STUDENTS	123	169	357
Judges (industry and post secondary in-kind)	12	24	46



# Statewide Botball Competition

Congratulations to the winning teams:

- 1st Overall & Outstanding Outreach Award - Galileo STEM Academy
- 2nd Overall & Overall Judges Choice Award - Emmett Middle School
- 3rd Overall & Spirit of Botball Award - Emmett Middle School
- 4th Overall & Outstanding Spirit Award- Buhl Middle School
- KISS Award- Summit Elementary





# Girls Go CyberStart

- The Girls Go CyberStart competition is a nationwide effort to encourage female students to consider cybersecurity as a profession.
- Through interactive games and puzzles, students learn about cryptography, web vulnerabilities, Python, Linux, and forensics and compete in a series of challenges based on real-world scenarios and threats faced by cybersecurity experts.
- The State of Idaho, INL, and STEM AC to support this competition.
- More than 11,500 girls are involved. Idaho finished 11th per capita among states with high school girls playing.

## **Congratulations to the winning Idaho teams:**

- 1. Compass Academy awarded \$1,000 for engaging 15 girls.
- 2. Foothills School Of Arts & Sciences awarded \$750 for engaging 13 girls.
- 3. Gizmo-CdA awarded \$500 for engaging 9 girls.

\*Prize were provided by SANS Institute.





# **GOAL #2: Align education and workforce needs throughout Idaho: MakerMinded Update**

## **Competition closed at noon on April 23rd**

- First place winners (\$4,000 each)
    - Basin 5-8 - Small MS/JH
    - Burley Junior High - Large MS/JH
    - Idaho City High School - Small HS
  - Other winners
    - White Pine Charter School - \$1,500.00
    - Canyon Ridge High School - \$1,000.00
    - Heritage Academy Charter - \$1,000.00
    - Upper Carmen Public Charter School - \$1,000.00
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## **GOAL #2: Align education and workforce needs throughout Idaho**

- Externships - 16 Teachers have been placed (goal was 10)
- STEM School Designation Awards and Rolling Application
- INDEEDS Award nominations are open now



# STEM AC Foundation Update

Fiscal Year	Total Foundation Donations Received
FY2018	\$ 139,574
FY2019 (to date)	\$ 379,012

## Grant Projects

- \$50,000 Grant from AEOP



**2019 Total - \$6,160.00**





# **GOAL #2: Align education and workforce needs throughout Idaho**

**Total Revenue for FY19 = ~\$1,006,281!!**

## **Top Donors**

- **Micron Technology Foundation – \$357K**
- **Idaho National Laboratory – \$172K**
- **Individual Donors – \$54K**
- **Laura Moore Cunningham Foundation – \$50K**
- **ALMMII (MakerMinded grant) – \$41K**
- **Let's Save America Foundation – \$30K**
- **Citizen Schools, Inc. – \$25K**



# **GOAL #2: Align education and workforce needs throughout Idaho**

## **Top Donor Programs in FY19**

- **Public-Private Partnerships: \$495K**
- **Competitions: \$213K**
- **Educator PD: \$200K**
- **STEM Awareness Events: \$29K**
- **INDEEDS Award: \$13K**





# Total In-Kind Donations

**FY 2019**

**\$3.4M**

Includes judges, mentors, industry partnerships, and media coverage



# GOAL #3: Increase awareness of STEM throughout Idaho

[Data Map Link](#)

## Updating our Data Collection Methods and Outcome Metrics



	FY16	FY17	FY18 (estimates)	FY18 (actuals)
Student Engagements	10,428	204,000	210,000	406,239
Educators Interactions	1,200	4,800	5,000	12,680
Community STEM Events	36	45	75	143
Cash	\$72,000	\$205,000	\$500,000	\$736,938
In-Kind (and cash equivalent)	Did not track	\$662,000	\$750,000	\$1,742,217



# Public Comment



# **Areas You Can Support**

## **Messaging**

- Introductions to STEM Supporters and Potential Partners**
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# Upcoming Events

**Next Board Meeting:**

**August 8, 2019**

**1pm – 4pm Room WW-17**

**STEM Day at the Western Idaho Fair**

**August 16, 2019**

**Noon-8pm**

