Board Meeting
May 14, 2019
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)
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
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
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
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
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)
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

<table>
<thead>
<tr>
<th></th>
<th>2017</th>
<th>2018</th>
<th>2019 (actual)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PROJECTS</strong></td>
<td>78</td>
<td>118</td>
<td>246</td>
</tr>
<tr>
<td><strong>TEACHERS</strong></td>
<td>14</td>
<td>22</td>
<td>37</td>
</tr>
<tr>
<td><strong>STUDENTS</strong></td>
<td>123</td>
<td>169</td>
<td>357</td>
</tr>
<tr>
<td>Judges (industry and post secondary in-kind)</td>
<td>12</td>
<td>24</td>
<td>46</td>
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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, Linus, 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.

*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
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

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Total Foundation Donations Received</th>
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<tbody>
<tr>
<td>FY2018</td>
<td>$139,574</td>
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<tr>
<td>FY2019 (to date)</td>
<td>$379,012</td>
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**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

Updating our Data Collection Methods and Outcome Metrics

<table>
<thead>
<tr>
<th></th>
<th>FY16</th>
<th>FY17</th>
<th>FY18 (estimates)</th>
<th>FY18 (actuals)</th>
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<tbody>
<tr>
<td>Student Engagements</td>
<td>10,428</td>
<td>204,000</td>
<td>210,000</td>
<td>406,239</td>
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<td>Educators Interactions</td>
<td>1,200</td>
<td>4,800</td>
<td>5,000</td>
<td>12,680</td>
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<td>Community STEM Events</td>
<td>36</td>
<td>45</td>
<td>75</td>
<td>143</td>
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<td>Cash</td>
<td>$72,000</td>
<td>$205,000</td>
<td>$500,000</td>
<td>$736,938</td>
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<td>In-Kind (and cash equivalent)</td>
<td>Did not track</td>
<td>$662,000</td>
<td>$750,000</td>
<td>$1,742,217</td>
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Public Comment
Areas You Can Support

Messaging

- Introductions to STEM Supporters and Potential Partners
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