

NC STEM REGION ADVISORY BOARD MEETING  
January 16, 2018

Present: Ashley Flatebo, Doug Jacobson, Michael Pedersen, Ben Petty, Sarah Rosenblum, Camille Sloan Schroeder  
Zoom:

Absent: Lindsey Falk, Sara Nelson, Kathy Rogotzke, Kerry Weig, Nancy Woods, Rich Wrage, Michael Young, David Zrostlik

NC STEM Staff: Kelly Bergman, Carol Tierney

STEM Advisory Operations Team: Kari Britian, Lindy Ibeling, Carrie Rankin

### **Operations**

- Carrie thanked board members for of their service and support of STEM
- Tanya Hunt has been hired as Project Coordinator and will further support and strengthen the state's STEM BEST Program partnerships.

### **Financials**

The signed agreements from Iowa Science Center for Making STEM Connections and Pint Size Science have been received as well as their first invoices.

### **Manager Updates**

Kelly attended the award assembly for the 2019 NC I.O.W.A. STEM Teacher Awardee - Sharon Jaeschke, Math Instructor and Robotics Coach Southeast Valley High School

STEM Festivals

Marshall County STEM Fest Sunday, March 3

ISU STEM Festival March 30

Boone Family STEM Festival April 13

Computer Science is Elementary application period opens January 22. Fort Dodge Schools is interested applying.

STEM Manager Visits:

St. Mary's in Humboldt, the New STEM BEST Awardee

Iowa Big North – STEM BEST

Nevada Elementary Maker Space

### **2019-20 Scale-Up Program Open period January 21-March 4**

STEM Advisory board to review applications March 5-29

New programs\*

### **Curriculum for Agricultural Science Education (CASE) - Food Science and Safety\***

**Description:** Stimulate actual concepts and situations found in the food science and safety industry. This course offers hands-on activities, projects and problems in areas of food safety, chemistry, processing, product development and marketing.

**Grade Level:** 9-12

### **Computer Science Discoveries\***

**Description:** Inspire students as they build their own websites, apps, games and physical computing devices. This course takes a wide lens on computer science by covering topics such as programming, physical computing,

HTML/CSS and data.

**Grade Level:** 6-10

**For Settings:** In school

### [Computer Science Fundamentals\\*](#)

**Description:** Foster equity and diversity in the classroom, breaking down barriers and stereotypes around computer science. This course is designed to be flexible for the classroom.

**Grade Level:** K-5

**For Settings:** In school and out of school

### [Computer Science Principles](#)

**Description:** Introduce students to the foundational concepts of computer science and challenge them to explore how computing and technology can impact the world. This course is a rigorous, engaging and approachable exploration of the foundational ideas of computing.

**Grade Level:** 9-12

**For Settings:** In school

### [Engineer Your World\\*](#)

**Description:** Engage learners in collaborative, student-directed projects that build creative problem-solving and engineering design skills. This course is designed to teach the value of collaborating to solve complex, modern problems and create a strong foundation for future STEM learning.

**Grade Level:** 9-12

**For Settings:** In school

### [Making STEM Connections](#)

**Description:** Engage students through making and tinkering and build conceptual understanding around academic content. This course is designed to empower teachers to cultivate engaging, purposeful and successful extensions of already developed curriculum.

**Grade Level:** K-8

**For Settings:** In school and out of school

### [Pint Size Science](#)

**Description:** Engage and inspire young minds to explore scientific phenomena. This course is designed to build science understanding and respond to the ever-changing interests and abilities of children.

**Grade Level:** PreK-2

**For Settings:** In school and out of school

### [Light and Shadow\\*](#)

**Description:** Create new and worthwhile ideas while exploring light to create shadows through creativity and innovation. This course encourages teachers to re-envision their classroom, routines and schedules to optimize students' learning.

**Grade Level:** PreK-2

**For Settings:** In school and out of school

### [STEM Innovator\\*](#)

**Description:** Transform the classroom into incubator spaces where student teams solve real-world problems alongside industry mentors. This course prepares students with the skills and mindset to persist in STEM education, pursue STEM careers and become innovators of the future.

**Grade Level:** 6-12

**For Settings:** In school and out of school

**Formulate action items for NC STEM Hub**

Sub Committee Ideas

Federal STEM Strategic Plan

STEM Educator Resources-Workshops, Training, Maker days, Extension offices

ISU Engagement-What can we bring to ISU to partnership

AG is STEM

Business partnerships

**Upcoming Events and Volunteer Opportunities**

Jan. 21 STEM Scale-Up Program Applications Open

Jan. 22 Computer Science Is Elementary Applications Open

Feb. 13 STEM Day at the Capitol

Mar. 3 Marshall County STEM Festival

Mar. 4 STEM Scale-Up Program Applications Close

Mar. 27 North Central STEM Advisory Board Meeting

Mar. 30 ISU/WISE STEM Festival -4:00 pm