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

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 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