

S1071 Meeting
Wednesday, May 22, 2024
Manhattan Convention Center

Present:

Name	Institution	Email
Aaron McKim	Michigan State University	amckim@msu.edu
OP McCubbins	Mississippi State University	am4942@msstate.edu
Daniel Foster	Penn State University	foster@psu.edu
Kasee Smith	University of Idaho	klsmith@uidaho.edu
Laura Haselquist	South Dakota State	laura.hasselquist@sdstate.edu
Katie Stofer	University of Florida	stofer@ufl.edu
Kevin Curry	Penn State University	kevincurry@psu.edu

Notes

Aaron welcomed everyone to the S1071 meeting and indicated we would start at 7:15 am.

Aaron called the meeting to order at 7:15 am

Aaron provided an overview of the S1071 project and discussed the 3 objectives.

- **Objective 1:** Curriculum - Facilitate the adoption and evaluate the impact of agricultural STEM curriculum.
- **Objective 2:** Teaching Methods and Techniques- Identify teaching methods, resources (facilities, equipment, materials, etc.), and instructional techniques currently utilized by agriscience teachers during exemplary Agricultural STEM instruction.
- **Objective 3:** Professional Development: Design and evaluate professional development related to Agricultural STEM Education.

Aaron asked for project updates from those in attendance.

Katie Stofer - Florida

- Teacher professional development (awarded in 2021). Teachers attend a workshop and spend time with a scientist focusing on a research project.
- STEM equity component. They have an online asynchronous component but had to rename it STEM for All.
- Problem – tried doing it during the year but districts unwilling to pay for substitute teachers.
- Wanting to focus on teachers in rural areas.

Aaron McKim - Michigan

- STEM It Up – lead by Catherin DiBenedetto and Natalie Ferand at Clemson.
- Submitted a USDA SPECA proposal that was funded. Teachers will explore the floral value chain.
- Research (SC) → Distribution center (NC) → Florist (KY) → Import of cut flowers (FL)
- Teachers will develop curriculum based on where they are at.

- Recruited teachers. Interviewed 30-40 teachers for the program. 20 selected. 5 alternatives.

Laura Hasselquist – South Dakota State

- Rural Ready AI – only two districts that classify as urban. Surveys going out to collect teacher perceptions of AI, barriers, etc. Training will prepare teachers to utilize AI in their contexts.
- Laura has an AI focused instrument she is willing to share.

Kasee Smith – University of Idaho

- AI – pre/post survey
- STEM content connections are challenging for preservice teachers. Adding in a STEM competency component to their teacher preparation program. Weekly STEM quiz.

Kevin Curry – Penn State

- Teaches an integrated a science literacy and public policy course at Penn State. He focuses on science literacy on issues related to agricultural and environmental science hot topics (climate change, use of animal antibiotics, etc.).
- Human dimensions of STEM integrated into course topics.
- Will share Test of Science Literacy Skills that he is using.

OP McCubbins – Mississippi

- Farm to Classroom VR project – USDA funded project that will develop immersive experiences around Mississippi commodities that can be used in k-6 classrooms. Will also facilitate professional development workshops for K-6 teachers focused on incorporating agricultural content into their classrooms.
- Delivering VR and AI workshops for CTE teachers across Mississippi.

Tyson Sorenson – Utah State University

- Working on a research project. Asked teachers to submit their most impactful STEM lesson. He is then breaking down the lesson and analyzing the components of the lesson (content, equipment, etc.). A publication is forthcoming.

Aaron called for any additional updates that folks wanted to share.

- Katie – Also on the Ag Literacy multistate project. National Ag Literacy course (10 hour, self-paced) is about to roll out if anyone is interested in it- access at agliteracy.org.
- Aaron – shared a potential publication outlet – Journal of Natural Sciences Education. He shared that they are very receptive of Agricultural Education work. They will not publish anything that has been published in AAAE proceedings.

Aarons term as chair ends at this meeting. Tyson, as chair-elect, will assume the chair responsibilities. Aaron mentioned that we will need to identify a chair elect. He will send an email to the entire S1071 team to seek nominations. The new chair elect needs to be aware that the renewal process would be a part of their responsibilities.

