**SC STEM Advisory Board Meeting
August 8, 2014**

1. Members Present: Bontrager, Corbin, Deegan, Dhawan, Derry, Harrington, Henson, Pattison, Peck, Wayne
2. Members Absent: Chai, Henshaw, Wigeland,
3. Special Guest: Rainkin
4. General Introductions for New Members
5. Very soon, the Board needs to elect a new chairperson for the committee. That person acts as a liaison between the state discussion of the board to ours. That individual also collects information on Sarah for evaluation purposes and participates in a monthly teleconference.
6. Derry—manager, background in teaching and bio research, enjoys talking to people about science and wanted to do work with education outreach
7. Pattison—ISU Extension and Youth Outreach Specialist. Has been working with youth for 20 years in Minnesota and Iowa through 4-H and K-12 systems. STEM is priority area for her.
8. Harrington—*Business Record*, Senior Editor. Has a love for technology, The T Sector magazine, moved 10 years ago, published first Innovation Iowa to raise awareness about tech, STEM chapter that focuses on STEM careers, passion of hers and wanted to get involved
9. Jerry Degan—President of Dowling for last 15 years, long-time teacher, doctorate from Drake, studied ICN, followed technology and now chasing STEM. Dowling has a dedicated STEM director and added PLTW with 200 kids. There’s an emphasis on STEM.
10. Rainkin—Assistant Director for Development. She supports hubs and brings together business and industry as a whole. She has kids in schools, sees first-hand what happens in the schools, and excited to see all of the growth.
11. Dhawan—His engagement in STEM began from his own kids interest. Interested in trying to raise entrepreneurial efforts and getting to the next step—somewhere between high school and college where the ideation of creation begins. Has been on the Board for 3 years.
12. Hensen—DMACC Arts and Sciences Dean; board member for 3 years. She works with science, engineering, and technology, and keeps them abreast of developments. Chairs DMACC STEM council; DMACC president sits on the State Advisory Board.
13. Peck—AEA Science Specialist; second year on Board. She’s taught middle school science, wants to keep teachers informed of opportunities that come from this initiative and enjoys the STEM festivals.
14. Corbin—Board of Directors for Pella Community Schools for 10 years. Represents Iowa Associations of School Boards on the STEM committee. Pella has a new career academy in development. She has 8 kids of her own.
15. Bontager—Executive Vice President Des Moines Greater Partnership. Attended ceremony for Tech Camp, who works with inner-city youth. Spoke to 6th graders last week. “Younger kids are starting to have bigger dreams and making connection on how to get there.”
16. Wayne—chemical engineer for Siegwerk. Has a heart for youth and STEM, women and minorities, especially STEM Beyond Emerging Scientists. In this program, 30 girls in grades 4-9and high school are exposed to STEM careers through hands-on education. She coordinates the non-profit group.
17. Progress Reports:
18. Corbin—nothing to share
19. Hensen—DMACC just finished tech camps for kids; going to be part of STEM Day on Aug. 17.
20. Peck—working with schools that have gotten scale-up grants, talking about kids and best fits, teachers are excited about starting programs
21. Tej—started the Iowa Conference in partnership with Bontager. Instead of just a doing 2 day conference, creating a 10-day tech week. The week builds in lots of fun technology. Visit desmoinestechweek.com for more info. They will invite kids 6-12 graders to share in the conference that will begin Oct. 8 and end on Oct 17. The final day bookends with World Food Prize.
22. Raikin—Iowa STEM has the Grand Concourse, where we’ll be helping facilitate interest and participation; real hands-on activities in 20ish booths. We’ll be partnering with various vendors and having a scavenger hunt relating to STEM. There’s also 4 different stage activities. Runs from 9AM to 9PM. We’re just trying to do more for networking and outreach on Aug. 17.

CAPS proposals are being accepted. CAPS = Center for Advanced Professional Studies—calling for schools. Business and industry will help develop and deliver curriculum. Students will work in strands, ex. Engineering. ID partners, 2.5 hours a day students are at the school with the professional or are out at businesses. $5-25,000 to schools. Oct. 15 due date. Tell all schools about it! Start with administrator to have that discussion.

Henson is wondering if community colleges could apply with the idea of developing a regional center. Yes and no--driven with the districts, but need to partner.

1. Deegan—Dowling kids participated in Coding Camp this summer. St. Teresa’s does a lot of STEM Looking to do more.
2. Harrington—our job is to get the word out. A technology issue will come out in Dec. Lots of news stories. A January edition will have a dedicated STEM section. *Innovation Iowa* launches every March. She’s inviting people to honor a tech leader in the Innovation Leader of the Year Award—pick 1 person for the state. Will be involved with STEM things happening in schools, also.
3. Pattison—Her Osceola office is having K-12 youth become more familiar with the research going on at ISU. They had an event Grand River Grasslands (Mt. Ayr). It’s a several year, multiple=partners project, looking to restore lands in the context of working lands—grazing and recreational use. There’s a cultural dimension of land stewards and farmers working together.
4. Bontager—announced as Executive Director for Education Drives for the Greater Economy (EDGE). Will see some regional goals around STEM graduates in K-12 system. More of campaign to highlight great work happening in central Iowa.
5. Old Business
6. Old minutes approved and seconded.
7. Great STEM things happening in committee
8. New Business
9. Professional Development announcement—read final schedule attached to this meeting’s email. Board Members are more than welcome to attend. Send Sarah an email so that people know you’ll be there.
10. You are invited to go to site visits this fall. Contact Sarah for arrangements.
11. STEM festival announcement—8 festivals on the calendar for this upcoming school year. Just had one is Osceola in July. Clarke County Fair Grounds hosted STEM in conjunction with Family Night. There were about 200 participants that filed through 12 presenters.
12. Oct. 28 at Ankeny DMACC from 6-8—more info coming
13. Drake’s Women in Make and Computer Science will take it’s Hour of Code to festivals and schools.
14. We’re coordinating with the NE Hub in Tama to create a festival in a county we split. We’ll learn how to do it big!
15. On April 16, Drake will piggy back a festival after DUCURS—K-12 focus.
16. William Penn will host a festival on January 27. It will be an educator make and take, with a shift to educators for hands-on curriculum ideas.
17. Ottumwa and Pella Festivals are repeats and very popular/successful!
18. TWO additional requests—1 from Lamoni and SC Iowa LINKS Chapter (representing the African-American community with a STEM community this year). Lamoni would like to host it in conjunction with homecoming, so that would have to be next fall.
19. DECLINED AWARD—didn’t find a qualified educator to teach PLTW $11,720

OPTIONS: 1. Go to additional educators for schools who have materials and technology BUT not a teacher 2. Distribute funds to other 4 Principles of Eng. Classrooms 3. Not spend the money and bring the money back into the hub.

a. Tej—bigger bang for your buck if goes to someone already engaged.

b. DECISION—go down priority list and offer money to bring those turned-down grants onboard.

c. Kim—Are there concerns on 2nd and 3rd round quality of programming? Answer: not in these cases.

L. Question: How do we reach out in an effort to be inclusive in marketing?
 Answer: Wayne addressed the question. “It’s a cultural, grassroots movement for credibility. I
 have to make sure I have volunteers from every place.” She’s reached out to civil
 organizations. She goes out and finds out who is retired and respected and builds those
 relationships. Knowing who to talk to is a big obstacle. Also, many are the same leaders—
 about 10 groups, many have the same leaders.

 Question: How can we support those groups even more?
 Answer: Ask 5-7 questions. See what people prefer: face to face, email, sit down and have tea.
 Get the voice of the customer. Her approach is different to each of the groups. Kim has been
 there for 14 years and beginning to understand. End of the day, you see the disparities. You
 also divide out Africans, refugees and African-Americans. Do not lump people together.

M. Evaluation Piece

a. Derry showed feedback from this year’s past evaluation forms.

N. Rankin on the Business Tool Kit

a. Rankin provided a snapshot of 7 months of work. Prior to Rankin, group in Dubuque
worked on making regional and local grants. Since Rankin has arrived, from this point and moving forward, we want business and industry more engaged in the work going on with the initiative.
b. Rankin will be canvassing the state of Iowa. First, STEM is looking for additional funding resources. (scale-ups and real-world externship program, CAPS models) from fed, regional, to state corporate level (some on smaller scale) to go above and beyond. Second, STEM is looking for a bigger fish to engage in time, talent, treasure. Treasure = $. Time. Talent = helping id what they’re doing to reach out in education and giving examples of what exists.
d. A draft of the Business Engagement Toolkit will be rolling out next month. An electronic version will follow a bit later.
e. Another piece Rankin has identified is the need that resources could support the council on a state-wide level. Rankin is asking businesses to consider financial resources that are unrestricted that are “unencumbered,” so they can use them as best needed.
f. Rankin invited a discussion on how to work with people to identify those to invite to the table. Time-talent-treasure go hand in hand, identifying who those “right” people/corporations are in an effort to get them more engaged in what we do.

1. Dhawan—This presents a challenge. There might not be an interest in financing; would not like to start using individual corporate connections.
2. Deegan—How is the Iowa Business Council engaged? Rankin: Very.
3. Deegan—challenging what Dhawan said. Deegan thinks that we need to engage both state and business. Sometimes business does have to lead what education wants. This is the chance to inform, educate and treat them like influencers.
4. Dhawan—If we bring corporate fundraising into the Hubs, we need to focus on TACTICAL parts and let the state focus on STRATEGIC. If we don’t focus on the tactical, we may lose focus on the strategic.
5. Rankin wants to be sensitive that Sarah is not working with fundraising and Drake endeavors
6. Deegan thought a link from superintendents to business could be helpful, asking superintendents to engage people in their area.

O. September’s meeting: Sept. 12 2014, ACT, Iowa City. October’s meeting: Oct. 28, 2014.