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**PUBLIC MEETING NOTICE  
NORTHWEST STEM ADVISORY BOARD TO MEET**

Thursday, August 23, 2018

9:30-10:30 Tour at the Sanford Museum and Planetarium, 117 E Willow St, Cherokee, IA 51012

10:45-11:45 Tour at Analytical Lab; 115 E Maple St, Cherokee, IA 51012

11:45- 12:30 Lunch

12:30- 2:00 NW STEM Advisory Board meeting at the Analytical Lab boardroom; 115 E Maple St,  
Cherokee, IA 51012

To join by computer, please click the following link: Join from PC, Mac, Linux, iOS or Android:  
<https://zoom.us/j/432511603>

Or Telephone: 1 669 900 6833 Meeting ID: 432 511 603

**Agenda**

1. Roll Call

**Present:** Mary, Melissa, Kiana, Beth, Brenda, Nancy, MacKenzie, Eric (virtual), Mark (virtual), Jordan (virtual), Ginny (virtual)

2. Welcome MacKenzie Reiling, Operations Manager, Iowa Workforce Development, new board member

3. [Budget Update](#)

- Scale-Up complete for the region
- Checking with teachers and awardees, if they did not attend a Professional Development Day, the award must be returned.
- \$13,788 has been returned in awards, have re-awarded \$2,200.
- STEM in Action: 22 schools awarded this Scale-Up award
  - For \$255 more per school, would come to \$5,610. Therefore, each school could get another kit.
- Could we do a follow-up for Professional Development Conference? ONLY for Scale-Up awardees and would have to decide which programs to invite.
  - Teachers could help partner/collaborate to share different kits.
  - Could it take place at Buena Vista in Storm Lake? Jackie Drey presenter?

4. [Festival Update](#)

- **Sat, Sept. 15: Science Saturday @ Clay County Fair 9:00am - 4:00pm**
  - Ramps & Pathways: works well for all age-groups!

- Scale-Up Programs: would like to promote 1-2
- Handing out free swag
- Governor should be there at 10:00 a.m.
- Main areas to help: Getting equipment into and out of the fair
- **Makerspace Festival in Sioux City, IA** Oct-Nov, large festival
  - Planning meeting next week Thursday, 8/30 @ 10-2 in Sioux City
  - Hopefully festival-goers will be in the 1,000's!
  - Tailored to all children, businesses and community members
  - All board members are encouraged to attend!
  - What would be the best time? Weekday, evening? Tuesday or Thursday
  - Registration table for demographics and evaluation for festival
  - Get advertisement in school newsletters
- **Precision Ag and Animal Science Festival Sept 4-6 in Sutherland, IA**
  - NW IA STEM will be there 9/4
  - STEM is donating 3 phone chargers and 1 Gopro Camera
  - 130 kids per day

#### 5. [STEM BEST Update](#)

- 2 or 3 that are applying for STEM BEST Award for NW IA.
  - Graettinger/Terril Area, Sioux City Area and Spirit Lake/Okoboji Area have expressed interest
  - One of the governor's favorite programs, **due Sept. 12**
  - Headquarters or Mary will be in touch when reviewing comes up
    - Webinars coming up to help review with rubric

#### 6. [I.O.W.A. STEM Teacher Award](#) - NW Board assignment to nominate teachers

- Challenge for Board Members: nominate a teacher for the I.O.W.A. STEM Teacher Award
  - Innovative, champion in STEM education, business partner

#### 7. [Future Ready Iowa Summits](#)

#### 8. Computer Science in the Elementary Overview

- Choose 6 schools: 1 from each region
  - Each for \$50,000 implementing Computer Science in Elementary
  - There was a press release this past week.
  - Raise \$450,000
  - Mary will be attending these meetings

#### 9. Goals for 2018-19 Year

- Improving relationship between schools and businesses
- Marketing impact on events and festivals
  - More press releases for newspapers/radios to pick up?

#### 10. Upcoming Dates and Events

- September 4-6 - Precision Ag and Animal Science Festival
- September 12 - STEM BEST applications due
- September 15 - Clay County Fair 9:00-4:00
- September 25 - Future Ready Summit, Spencer 9:00-3:00

- September 30 - Sioux City Makerspace Festival Meeting 10:00-2:00
- October 3 - Future Ready Summit, Denison 9:00-3:00
- October 9 - Future Ready Summit, Sioux City 9:00-3:00
- October 9 - I.O.W.A. STEM Teacher Award Applications due

### STEM Happenings

**Next Meeting** – Wednesday, September 12, 2018, 1:00-2:00 pm Tour, 2:00-3:30 pm Meeting -Stensland Family Farms 1664 Ashley Ave Larchwood, IA 51241

#### Tour Recap:

**Foundation Analytical Lab:** <http://www.foundationanalytical.com/>

Foundation Analytical Lab provides testing for animal feed + pet food, the biofuel industry, and some food quality. They serve 4 out of 5 of the largest ethanol plants in the United States. The lab processes 250 to 300 samples per day and turn around time is 3-5 days. They will be celebrating their 10th anniversary next year with a brand new building since they have been largely successful. Born out of frustration with previous employment with contracted labs, founder, owner, and director of technical services, Diane Young seeks to provide top notch customer service and states that “science is our backbone and human relations is our business.” Foundation Analytical Lab seeks to be the provider of choice, employer of choice and investment of choice. The equipment is expensive and requires precision in operation and an environment that is precisely controlled.

**Sanford Museum & Planetarium:** <https://sanfordmuseum.org/>

The Sanford Museum and Planetarium was opened to the public in 1951, with the intention to create a charitable trust for historical, cultural and educational purposes that was to be free and open to the public. Exhibits and activities include subjects such as archaeology, art, astronomy, geology, history, natural history, and paleontology. The board was able to experience the new software in the planetarium. Several different softwares are available for students and adults to learn more. One of the software goes inside of the human body so individuals can learn more about different systems such as the muscular, skeletal, circulatory and other systems. Another software educates individuals about Earth and the solar system. It has the capability to show recent earthquakes and constellations in different parts of the world. The tour also included a “behind the scenes” experience, with a tunnel that was built recently in the basement to help store other exhibits that are not displayed. All items are filed by a particular number and county to prevent loss.