



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

Friday, June 8, 2018

10:00 Tour at Polaris Industries
1900 US-71, Spirit Lake, IA 51360

11:00 Board Meeting at Spirit Lake Middle School - Makerspace Room
609 28th St, Spirit Lake, IA 51360

To join by computer, please click the following link: Join from PC, Mac, Linux, iOS or Android:
<https://zoom.us/j/379195452>

Or Telephone: 1 646 876 9923 Meeting ID: 379 195 452

Agenda

1. Roll Call
 - a. Personally attended: Terry Putnam, Ginny Gunderson, Kiana Johnson, Mary Trent and Melissa Skrepak
 - b. Virtually attended: Mark Zabawa, Linda Gray
2. Update on NW Advisory Board member vacancies
 - a. Kathleen Bottaro, Linda Gray and Teresa Alesch are stepping down
 - b. Open seats available: Library, AEA Regional, Workforce Development
 - i. If you know of any candidates, they must apply by July!
3. Dates and locations for professional development for Scale-Up Programs
 - a. Attend 1 meeting in lieu of Board Meeting in July
4. Festival planning for 2018-19
 - a. Festivals for this year, potential festivals for coming year
 - b. Lots of involvement in upper region. We need to be more involved with festivals/fairs in the mid-lower region.
 - c. UNI creates map of what festivals reached what counties for us. How can we increase? Areas to improve
 - i. 2 years of data to look at where we are and where we've been
 - d. In the past we have partnered with other entities who have established festivals. It makes more sense to do smaller festivals because of rural nature.
 - e. Makerspace (community) in Sioux City, wants to do more partnership with schools in region. Possibly create a festival in early Fall? This would be an original from the ground up festival.
 - f. Precision Ag Animal Field Science Day: Iowa State Extension Office - Beth Bunkers

- head. Accepted as a STEM stamp of approval; need to hit more tours with Ag.
- g. STEM & Arts @ Storm Lake: big festival, continue
- h. Healthy Living Festival in Sheldon
- i. Winter Festival @ DMACC
- j. Dordt Festival @ Sioux Center
- k. Women in STEM Festival @ Iowa Lakes
 - i. Works great at Iowa Lakes during Spring Break. Mary has received suggestions to include a day for boys and to switch locations every/other year. It was concluded that Iowa Lakes works well for this festival with over 200 girls attending from surrounding areas, but it would be possible to do an additional festival at a different location in coming years.
 - 1. 238 7th & 8th grade girls this year.
 - 2. Can we expand to other areas? Do we have capacities, volunteers, staff, presenters, etc. Ida/Calhoun Counties? Do a festival of some sort, sparse in Woodbury, Ida, Sac and Calhoun?
 - ii. More extension for Aviation Day, numbers were down this year.
- 5. Areas of strength and area to improve
 - a. Board member involvement
 - b. Assigning duties
 - i. Brenda Welch: collecting data for festival involvement
 - ii. Kiana Johnson: Follow-ups with facilities getting involved with schools
 - iii. Melissa Skrepak: Spreadsheet of business industries by county
- 6. Upcoming Dates and Events
 - a. June 11, TICL Conference - Storm Lake
 - b. June 11, Teacher Externship Orientation- Storm Lake
 - c. June 13, Future Ready Learning -FFA Enrichment Center Ankeny DMACC Campus
- 7. STEM Happenings

Next Meeting – Friday, August 10, 10:00 Tour at Foundation Analytical Laboratory, 11:00 Board Meeting, 12:00 Lunch, 1:00 Tour at the Sanford Museum & Planetarium

Polaris Tour:

- Polaris bought Indian Motorcycles in 2011, only factory that makes them in the world.
- Indian Motorcycles has 2 lines: Scout Line (light weight), heavier weight line. Make 70 lightweights/day, 40 heavier weights/day.
- Getting ready to launch 2019 bikes.
- Test all bikes simulator, do not put seat on until end so owner is the first one to sit on it!

Spirit Lake Middle School Makerspace 2017-18 and 2018-19 STEM Best Award Recipient

Rick Reinking presented a brief overview of their Makerspace for the Board.

GOALS:

1. Get students involved with Making and Maker Ed, STEM
2. Provide access to some new technologies
3. Provide support for curriculum areas (PBL) integrating STEM
4. Connect with local business, nonprofits, higher ed

Station-Based (14)

3D Additive Printing Station

Digital Making Station

Construction Station

Vinyl Printing Station
Shirt Shop Station
Button Station
Craft Station

Cardboard Challenges: Float Your Boat

400 kids have opportunity to be involved