

STEM Meeting Minutes

April 30, 2019

Paper Discovery Center

3 p.m. – 4:30 p.m.

ATTENDEES: Carol Bredesen-Bemis Co., Carol Coulliard-Paper Discovery Center, Sara Schewe-Jacobs, Brian Witt-Ariens Company, Ann Franz-NEWMA

Topic 1: Presentation - Paper Discovery Center (PDC)

Carol gave a presentation about the Paper Discovery Center. PDC has a focus on science, which opened in 2005. In the past, the focus was on elementary school aged students, now they are adding programming for junior high students. Last year, there was approximately 10,000 people came into the building with 3,000 of them school aged students. UW Stevens Point is working with them on a girl's paper program. The Alliance would like to look at ways to partner with the PDC. Opportunities include having the PDC show All Stars and Get Real Math videos related to the paper industry. Carol and Ann will have an additional meeting to determine next steps.

Topic 2: 2019 Get Real Math (GRM) & Premiere & Special Award

GRM videos: Ariens, Kohler, Outlook Group, TIDI Products, Pierce Manufacturing & Oshkosh Defense.

All the companies have had their initial meeting and all of the filming dates are set for May & June.

In order to market the Get Real Math videos to more teachers, there will be a new Award category at this year's 'Excellence in Mfg./K-12 Partnership Awards' for best Get Real Math video. Math teachers will decide which video they like best. The video that has the most votes will win an award and be featured at the Excellence Awards dinner. Ann will send an email to all who have registered on the GRM website and teachers in general, asking for them to vote.

Topic 3: Discussion of You Can MAKE it in Northeast Wisconsin Career Expos at Lombardi & Greenville Middle Schools

On March 19, Greenville Middle School hosted 15 companies. Lombardi Middle School hosted 16 companies on April 2. The schools and companies enjoyed the event; however, there was a low turnout of parents for the afterschool sessions. \$4,000 was the total cost to hold the event at both schools.

There was discussion regarding continuing this initiative, due to the low parent turnout and high cost. The event is valuable in that it aligns with ACP and provides schools a connection with businesses. A suggestion is having each core subject have for one day a manufacturing company take over the class and do an activity. This would be done over the course of the year in the core subjects of math, science and English. By having a 2 or 3 companies work with a school, the Alliance could host more events at more schools. Ann will be meeting with past participant school reps and will share their feedback at the next STEM taskforce meeting.

Topic 4: Females in STEM occupations

Members reviewed a chart from NEW ERA giving a percentage of how many males vs. females in manufacturing-related degree programs. Many programs had less than 10% females. The only degree programs above 10% females to males was engineering and that was only 11%. Members discussed the issue that may be causing few females to go into these degree fields. It seems that there is interest in middle school females to participate in STEM, however there is a drop off in high school. Some suggest

that there are not enough role models for youth to see themselves in a similar profession. Females often seek jobs that they can be creative and make a difference. The Alliance's You Can Make It Career Expo may need to change to 'You Can Make a Difference Career Expo'. Microsoft has a program called, TEALS that has women in the computer field teaching students in the classroom. More discussion will be on this topic at future meetings.

Topic 5: Tech Ed Teacher 'Big Trucks Tour'

Last June, the Alliance hosted a Marine Manufacturing Tour for Wisconsin tech ed teachers to tour Bay Shipbuilding and Marquis Yachts. A unique facet, the teachers sailed on a million-dollar Marquis Yacht on the Bay of Green Bay.

The Alliance is working on hosting the 2nd annual Tech Ed Teachers Event, scheduled for June 19-20. This year's event is featuring Oshkosh Defense and Pierce Manufacturing and will be called Big Trucks Tour. After seeing how military vehicles are made, teachers will take them out on the test track. Participants will go to Pierce to see how their fire trucks are made. Wilson Jones, President and CEO of Oshkosh Corp., will talk to the educators. They will also tour FVTC's Public Safety Training Center. There is capacity for 35 educators to attend. The WTEA has sent event information to their members.

Topic 6: Next agenda and meeting location/date: May 28 at 3 p.m.