

NEW Manufacturing Alliance

STEM Meeting Minutes

May 29, 2018

Bemis Co.

3 p.m. – 4:30 p.m.

ATTENDEES: Carol Bredeesen-Bemis, Andy Bushmaker-KI, Sarah Pethan-St. Bernard School, Taryn West-K.R. West Company, Brian Witt-Ariens Company, Ann Franz-NEWMA

Topic 1: Project Lead the Way/STEM for elementary students – Sarah Pethan, St. Bernard School

Sarah shared her school innovative approach to engaging elementary school aged students as young as first grade in STEM. Her school is a Project Lead the Way (PLTW) school offering programming in kindergarten through grade 5. There are 24 modules that the students work on hands-on activities, projects and problems that build upon each other. She teaches first and second grade. She likes the program because it works on critical thinking skills. Each of the PLTW modules has engineering as part of the lesson plan. The students work on building, design and test. She likes that the lesson plans encourage learning through failure. Each grade that has the elementary PTLW is \$2,000 cost to the school. Her school will be having an Open House for manufacturers next school year. The taskforce discussed the value of having PLTW in elementary schools, especially those schools that have it in the high schools like Neenah and Oshkosh.

Topic 2: ‘You can MAKE it in Northeast Wisconsin’ Greenville/Hortonville Middle School career exploration event on 4/24 and Engineering Technology Career Pathways event on 5/22 recap

You can MAKE it in northeast Wisconsin Career Expo:

19 companies participated in the 4/24 event working with over 200 7th graders. A week prior to the event, students visited the companies’ websites and watched videos from the companies. The students then chose what 6 companies they would like to visit at the event. The students did an activity at each of the 3 companies that they visited in the day. Parent were invited to come back at the end of the day. It was a great success with companies and students really enjoying the event. A few tweaks for doing it again with having 25 minutes for an activity instead of 30 minutes and less time to transition to the next activity. One company stated on the post event survey that they liked “The energy of the kids and seeing them come back to show their parents what they did during the day. The cost of the event was \$1,800 for the Alliance.

Suggestions for next year include inviting parents immediately after school, not having as long of a lunch break and time between sessions. There was interest in setting up the night before, so it is easier to move in when parents/busses are dropping off students.

Engineering Technology Career Pathways at Seymour High School

9th and 10th grade high school students in either Geometry or Algebra class. During the class period the class was split in half. One half did a hand on activity in NWTC’s Electro Mech lab. The other half of the class listened to career speakers and college reps. The career speakers represented electro-mech and engineering technology careers. The class then switch half way through the class period. There was no cost for the event, however in the future there will be about a \$500 fee for the mobile lab. Taryn shared that she liked that the class was math students and that the class was split in half, which made it easier to engage with the students.

Topic 3: Plan future hands on/parent events for upcoming year that may be funded by grant

The taskforce would like to host 3 ‘You can MAKE it in northeast Wisconsin’ events in the 2018/2019 school term. The events should highlight that these careers make a difference and not focus solely on money. Middle school should be a focus area for future event. It is also important to help educators/counselors explore manufacturing careers to get them excited about these occupations. On June 13-14, the Alliance is hosting tech ed teachers for a Marine Manufacturing Careers Exploration event that features tours at Marquis Yachts and Bay Shipbuilding, plus a boat cruise on a yacht.

Topic 4: Get Real Math Videos planning

Get Real Math were filmed at Georgia-Pacific in May. TIDI Products will be filmed on May 30, 2018. Kohler Co., Marinette Marine and Werner Electric will be filmed in June. Get Real Video Premiere will be held on Oct. 2, 2018 at the

Meyer Theatre. Andy and Ann presented in May at the Wisconsin Mathematics Council's annual conference. Math teachers attending the meeting (approximately 50) were excited about the videos.

Topic 5: Next agenda and meeting location for the Wed., July 25 at 8:30 a.m. at YWCA

Agenda:

YWCA connecting with female students

Plan 2018/2019 STEM programming

October 23 ACP meeting and October 24 student event

Get Real Math update