

## **NEW Manufacturing Alliance**

### **STEM Meeting**

January 23, 2017

NWTC

4 p.m. – 5:30 p.m.

#### *Minutes*

Attendees: Steve Cahoon, Cyndi Cantwell, Elissa Hoffman, Shannon Niccum, Stacy Norman, Janet Rankin, Mark Weber and Ann Franz

#### **Topic 1: History and overview of new STEM taskforce**

- Alliance started in 2006.
- First taskforces started in 2008.
- K-12 overview of work product: plant tours, Excellence Awards, outreach events like Mind Trekkers
- Get Real Math (GRM) started in 2013 by a math teacher asking the K-12 taskforce to help her show relevancy in what she was teaching in the classroom
- Get Real Math started with 5 videos and now has 23 videos
- K-12 taskforce getting too large and too much work to be done by only one taskforce

#### **Topic 2: Discussion of 2017 work product for taskforce**

1. GRM videos
2. GRM Premiere
3. Find Your Inspiration in Green Bay and Appleton
4. SeaPerch – underwater competition 2/18/17 at Ashwaubeon Community Pool from 8 a.m. – noon

Explore other STEM related events and initiatives, so there is not duplication in what the Alliance is doing related to STEM. Ideally the Alliance could be supporting these other initiatives. The committee is interested in meeting with the directors of the STEM Networks in Brown and Winnebago counties.

In addition the Alliance could work on a career fair for kids and parents focused on STEM. Shannon stressed the importance of engaging students who are not already excited about STEM. There may be an opportunity to partner with the schools on Parent/Teacher nights to provide career information as parents wait to meet with the teachers.

Stacy shared that there are kits called, “Engineering is Elementary” that provide students the opportunity to learn about STEM. The kits are for grades 1-5. Mark explained that NWTC has mobile modular kits that showcase electro mechanical/engineering. The kits are for 9-12 graders. The kits may be too advance for students in elementary and middle schools, however content could be developed for career awareness in those age groups.

The Children’s Museum of Green Bay will be featuring a new manufacturing exhibit in fall of 2017. The taskforce would like to work with the museum in spotlighting manufacturing careers.

#### **Topic 3: Get Real Math 2017**

Three companies are set to be filmed for GRM: Rockline, Nercon and Marinette Marine. There is an opportunity for one more company to participate this year. Belmark had expressed interest, Ann is following up with them. The cost for a company to be featured in 3 videos is \$2,500.

The taskforce discussed ideas for the 2017 videos. Statistics is a difficult concept for students to understand and see how it correlates to the real world. The committee discussed having the videos have an interdisciplinary focus featuring math, tech ed and science. An example of a video could focus on 6<sup>th</sup> grade math and physical science. One of the videos could start ‘something went wrong’ and the students would need to solve what went wrong.

**Topic 4: SeaPerch**

The North Coast Marine Manufacturing Alliance (NCMMA) is having the 4<sup>th</sup> annual SeaPerch competition being held on Feb. 18 from 8 a.m. - noon at Ashwaubenon Community Pool. The NCMMA has merged with the NEW Manufacturing Alliance and is seeking volunteers to help with the event. There are 15 teams from middle schools from Menominee Michigan, Sturgeon Bay, Green Bay, West De Pere and Seymour. Contact Ann if you can help with the event.

**Topic 5: Next agenda and meeting location/date**

The taskforce will meet the fourth Wednesday of the month at 3 p.m. **The next meeting will be held on Wed., Feb. 22 at 3 p.m. at KI in Manitowoc.**