

**NEW Manufacturing Alliance  
STEM TASK FORCE MEETING MINUTES  
KI – Manitowoc, WI  
Wednesday, February 22, 2017 – 3:00 PM**

**ATTENDEES:** Andy Bushmaker-KI, Steve Cahoon-Sargento, Cyndi Cantwell-GBAPS, Kelly Ellis-Einstein Project, Sarah Lackershire-Rockline Industries, Shannon Niccum-Nestle, Ann Franz-NEWMA, Debbie Thompson-NEWMA

### **GRM VIDEOS PLANNING**

Fincantieri Marinette Marine, Nercon Eng. & Mfg., Inc. and Rockline Industries will be participating in the 2017 GRM videos. An additional company is in the works. Billie Rau will create the Rockline Industries lesson plan. Cyndi Cantwell has offered to create the Marinette Marine and Nercon lesson plans. The GRM timeline is as follows.

- ✓ April – Initial meetings with company and curriculum writer
  - ✓ May – Second meeting with finalization on script
  - ✓ June - Filming
  - ✓ Videographer has the next two months to produce the videos.
  - ✓ Early August - NEWMA receives the videos. They then get sent to the participating companies for their approval.
  - ✓ Early August - Videos get sent to the math teachers for the lesson plans.
  - ✓ September 30 - One lesson plan from each company needs to be completed. The other lesson plans need to be completed shortly thereafter.
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- A feedback form link has been added to the GRM page of the NEWMA website.
  - A postcard will be sent to northeast Wisconsin math teachers to raise GRM awareness.
  - The website will feature a search function. GRM can then be searched by grade and topic.
  - Determine who is using the videos. Provide a motivator that would encourage them to take the next step.
  - Create a method for letting teachers know when changes are made.
  - The NEW Manufacturing Alliance’s Math Council will be meeting next Wednesday to generate ideas.

### **GRM MOVIE PREMIERE**

Tuesday, October 3, 2017 – **TENTATIVE**

5:30 TO 8:00 PM

5:30 to 6:30 PM – Reception

6:40 PM – Program Start

Venues outside of Brown County are being considered, possibly Manitowoc (Theatre) or Sheboygan (Kohler Art Center, Stefanie H. Weill Center). It is hoped that Pete Petoniak would again be able to serve as emcee. Enhancements can include providing for attendee feedback and/or trivia ([Kahoot](#)).

### **STEM-01**

This nonprofit organization is headquartered in Utah and is trying to get their product into Wisconsin. Their strategy is to provide schools free curriculum by having companies pay for it at a cost of \$15,000. Middle and high school grades are being targeted. Ann discussed their requirements. It was felt that these requirements are already being met through the GRM videos, at a much lower cost. NEWMA wants to focus on regional manufacturing employers and their career opportunities, vs. having students learn about jobs elsewhere, taking them out of the area.

### **EINSTEIN & STEM NETWORKS**

**Kelly Ellis**, executive director, gave an overview about **The Einstein Project**. They are a nonprofit organization that leases hands-on, inquiry-based learning kits to Pre-K through 8<sup>th</sup> grade students. New science standards have allowed them to add additional curriculum offerings. The Smithsonian writes the curriculum, while the Carolina Biological Supply Company creates the kits. They purchase and add local flavor to the kits. Volunteers refurbish the used kits so they can get recycled.

- Sponsorship and volunteer opportunities are available. The organization offers a scholarship program for schools. A business can adopt a school and purchase the kits on their behalf.

- On October 21, 2017, the organization will be hosting its first STEM Expo in Oshkosh, partnering with the STEM Outreach Team at UW-Oshkosh.

### **Greater Green Bay STEM Network**

This initiative was created to promote STEM in the Green Bay area. This collaborative group meets monthly to:

- Increase STEM awareness. (There is also a STEM Network in Oshkosh.)
- Share best practices and resources.
- Discuss grant and/or funding projects.

The Greater Green Bay STEM Network would like to partner with NEWMA, in an effort to enhance STEM offerings and not duplicate efforts. Kelly shared they are happy to support and partner with NEWMA. They are also willing to link GRM videos through their teacher portals and provide additional applications. Ideas included connecting students with an All Star through Skype. This would allow students to ask questions about their career. Various careers can be featured. Scheduled Skype sessions could also be used to facilitate answering any questions teachers may have about the GRM videos. Ann will contact Kelly to meet one-on-one to further discuss potential opportunities. She will report back to the STEM Task Force at the April meeting.

### **FOX CITIES 8<sup>TH</sup> GRADE CAREER EXPO – MARCH 7, 2017**

The Alliance is sponsoring \$2,000 for this event. Over 2,000 students will receive an *All Stars* magazine. LAB Midwest will have a booth and provide a lot of cool hands-on, student activities.

### **GREATER GREEN BAY CHAMBER'S 'FIND YOUR INSPIRATION' EVENT – OCTOBER 2017**

Over 4,000 8<sup>th</sup> graders from regional schools participated. All students received an *All Stars* magazine. This event provides a great opportunity for members to discuss manufacturing careers with students. Teachers often provide student programming around the event content. Ann will coordinate with Ashley Knutson about a modified sponsorship for 2017, similar to the Fox Cities Chamber program.

### **SEAPERCH COMPETITION – FEBRUARY 18, 2017**

The North Coast Marine Manufacturing Alliance (NCMMA) held its 3<sup>rd</sup> annual [SeaPerch](#) competition at the Ashwaubenon Community Pool last Saturday. 14 teams participated. Each student team built an underwater robot prior to the event. Students were awarded points based on their presentation, obstacle and hoops challenge results. The process allows them to gain experience in engineering concepts, problem solving, teamwork, technical and safety applications. An almost equal number of girls and boys have participated. Admission to the ½ day event is free. All participants were given a SeaPerch t-shirt and certificate. Regional winning teams were:

- First place – PROTO
- Second place – Leonardo da Vinci
- Third Place – Elmore Elementary

PROTO will be traveling to the national SeaPerch competition in May at Georgia Tech. The Navy League is sponsoring part of their travel expenses. With the merging of the NCMMA with NEWMA, this event will again be held in 2018.

### **NEXT MEETING DATE/LOCATION/AGENDA**

The next **STEM Task Force meeting** will be on **Wednesday, April 26 at Sargento (Plymouth) 3:00 p.m.** Agenda items include the following.

- ✓ GRM
- ✓ GRM Movie Premiere Planning
- ✓ Greater Green Bay STEM Network Opportunities
- ✓ Event Updates