

**NEW Manufacturing Alliance
STEM TASK FORCE MEETING MINUTES
Ariens Company - Brillion, WI
Wednesday, January 22, 2020 – 8:30 AM**

ATTENDEES: Andy Bushmaker-KI, Brian Witt-Ariens Company, Ann Franz-NEWMA, Debbie Thompson-NWTC (via phone)

REVIEW 2019 STEM TASK FORCE ACTIVITIES

- February 16 - **SeaPerch Underwater Robotics Competition** hosted teams from the following Middle Schools: Ashwaubenon, Brillion, De Pere, Green Bay, Howard/Suamico, Marinette, Seymour, and Shawano. The following parochial schools also attended: Bay City Christian, Pilgrim Lutheran, and St. Bernard.
- March 6 – Fox Cities Chamber **Find Your Inspiration** - Over 2,000 8th graders received an *All Stars* magazine.
- March 19 - **You Can MAKE It in Northeast Wisconsin Expo** – Over 200 7th graders from Greenville and Hortonville Middle Schools participated.
- April 2 - **You Can MAKE It in Northeast Wisconsin Expo** – Over 200 6th graders from Lombardi Middle School participated (new for 2019).
- May 2 - **ACP Partnerships Breakfast** - Marinette County
- June 19-20 - **Tech Ed Teacher Big Trucks Career Exploration** was held at Oshkosh Defense and Pierce Manufacturing. The event included a JLTV ride on their test track and tours.
- August - **K-12 Outreach Survey** of the membership identifying manufacturers' interests at specific school districts. This information became part of the **ACP manufacturing careers toolkits**.
- **Funded bussing** for over 1000 students to participate in plant tours during October (manufacturing month).
- October 1 – **Get Real Math Premiere** – 175 attendees – The Premiere featured new videos from Ariens Company, Kohler Company, Oshkosh Defense, Pierce Manufacturing, and TIDI Products. 16 new videos were filmed in 2019.
- October 29 – **Excellence in Mfg./K-12 Partnerships Awards** – 425 attendees (record number) - \$13,700 was raised from the auction.
- October 29 – **ACP Partnerships Meeting** – There were 80 attendees, mostly educators and administrators, from schools throughout northeast Wisconsin.
- October 30 – **Manufacturing First Expo & Conference** – 1200 attendees, 500+ high school students and over 200 exhibit booths.
- November 5 - NEWMA sponsored the Greater Green Bay Chamber's **Find Your Inspiration** event. Over 4000 8th grade students received an *All Stars* magazine. Alliance members received a discount on their exhibit booth.
- Created **Manufacturing Careers Pathway** for the Wisconsin Department of Public Instruction.
- Presentation by the Paper Discovery Center.
- Presentation by the Girl Scouts.
- Researched how to get more females in STEM.

2020 INITIATIVES & GOALS

- February 20 – Hortonville & Greenville Middle School's **You Can Make It in Northeast Wisconsin Career Expo** (free booths available) – Two more companies are needed to participate. **Members are encouraged to contact Ann if they are interested in participating.**
- February 22 – **SeaPerch** at Southwest High School - 20 Teams
- March 4-5 - **Future Fox Cities Career Expo** - Appleton – Each student receives an *All Stars* magazine.
- May 6 – Lombardi Middle School's **You Can Make it in Northeast Wisconsin Career Expo**
- June 16-17 – **Tech Ed Teachers Career Exploration** – Focus on Airplanes – NEWMA partners with WTEA to host 25 to 30 tech ed teachers.
- August - **K-12 outreach survey** will be administered to manufacturer members. The results identify their interests in partnering with specific schools and in what capacity. The data becomes part of the **ACP manufacturing careers toolkit**.
- 15 new **Get Real Math/Science Videos** will be produced. Science videos are new for 2020!
- **October is Manufacturing Month!**
- October – **Fund Bussing**
- October – **Get Real Math Premiere**
- October 20 – **Excellence in Mfg./K-12 Partnerships Awards**
- October 20 – **ACP Partnerships Meeting**

- October 21 – **Manufacturing First Expo & Conference** hosts 500+ high school students.
- November 12 - NEWMA sponsors the Greater Green Bay Chamber's **Find Your Inspiration** event. Each student receives an *All Stars* magazine. Alliance members receive a discount on their exhibit booth.

2020 GET REAL MATH (GRM) & PREMIERE

Science videos will be added this year. Several GRM videos already include some science. Distribution lists are being updated/created for promotion of the videos to educators. Ann will be scheduling a February meeting with science teachers to create awareness. Science teachers will also be needed to create lesson plans. Potential areas to feature are Chemistry, Physics and Biology.

Ann's new marketing coordinator has drafted some promotional flyers for this effort. Information will be emailed and/or USPS mailed to the teachers and administrators of regional private and public schools.

- Ann will send an email, including a checklist of expectations, to solicit companies to participate.
- 2020 company participants will be finalized in early March.
- Each company will need to choose between filming math *or* science videos.
- Each company will need to identify their organization's champion. The champion will need to have expertise in math *or* science and be able to coordinate their company's videos.
- The script and math/science problems will need to be worked out BEFORE the videos are scheduled to be filmed.
- The teacher will need to review for correctness the script and math/science problems BEFORE the videos are scheduled to be filmed.
- Filming will take place in June.
- The sponsorship for a company to participate in GRM or GRS will remain at \$3500 per company, in addition to their sponsoring a \$500 Premiere award to a winning school's math, science, and/or tech ed department.

Ann will coordinate meetings amongst the Math Council, science teachers, videographer, and STEM Task Force. Regional science teachers will also be invited to October's Premiere.

FEMALES IN STEM OCCUPATIONS

Claudia Krepky of Kohler Co. would like to help coordinate a statewide, one-day event focused on STEM and girls. A Saturday in early November could include inviting 6 to 8 Girl Scout troops, ages 4-6. Plant tour(s) could be offered. Ann has a phone call scheduled with the head of the Brillion area Girl Scouts to gauge their interest. To get good attendance, badges may be offered. Ann will follow-up with the STEM Task Force.

Members discussed how they could have a bigger impact on getting more girls involved in STEM. Female mentors are needed. NEWMA is looking to create mentorship training for their members. Companies can be encouraged to identify their female employees who could serve as a mentor to school age females.

Event sponsorship or providing volunteers is another way NEWMA could impact a lot of girls. Ann will investigate opportunities already in existence. NEWMA could duplicate offerings and/or help the girls connect with more employers. College summer camps sometimes focus on females/STEM. NEWMA could co-sponsor a camp, offering tuition reduction for enrollees. Encouraging parent involvement continues to be a part of this initiative.

NEXT MEETING DATE/TIME/LOCATION/AGENDA

The next STEM Task Force / Math Council joint meeting is at TIDI Products (Neenah) on Wednesday, March 4, 4:00–5:30 p.m. Agenda:

- ✓ Get Real Math/Science & Premiere
- ✓ Females in STEM Occupations
- ✓ Next Meeting Date/Time/Location/Agenda