

**NEW Manufacturing Alliance
K-12 TASK FORCE MEETING MINUTES
Lakeshore Technical College – Cleveland, WI
Friday, April 17, 2015, 8:30 – 10:00 a.m.**

ATTENDEES: Polly Abts-LTC, Andy Bushmaker-KI, Kari Christoph-A to Z Machine Co., Adam Cochart-Bay Port High School, Oran Nehls-Denmark High School, Shannon Niccum-Nestle, Jennifer Rauscher-Plymouth High School, Steve Straub-FVTC, Ann Franz, Debbie Thompson

1. EMPLOYABILITY SKILLS TRAINING

This training will focus on three areas; 1. Effective Communications, 2. How to Work on a Team, 3. Critical Thinking & Problem Solving. Attendees reviewed and edited the team building PPT. Edits will include having students do more self-reflection, encouraging them to identify their strengths and areas for improvement. The PPT will take students approximately 30 to 40 minutes to complete and includes both individual and teamwork.

Projects will be completed over the course of a semester. Basic guidelines are as follows.

1. Initial meeting with the class and present problem solving activity.
2. Second meeting with the class includes a project update and how to work on a team activity.
3. Third meeting with the class includes a project update, in addition to effective communication training.
4. Last meeting will be student presentations and reflection.

NEXT STEPS

- ✓ **Edit the PPT (including the rum reference and replace with rubbing alcohol).**
- ✓ **Ann will contact the manufacturers who are a part of the K-12 Task Force to confirm their participation.**
- ✓ **Launch the program for fall 2015.**
- ✓ **Let students manufacture something they can take home from the process.**
- ✓ **Present a recap of the Employability Skills Training at the March 2016 NEWMA General Membership meeting, in an effort to get more companies to participate.**

2. INTERNATIONAL TECHNOLOGY & ENGINEERING EDUCATORS ASSOCIATION CONFERENCE (ITEEA)

Members who attended the recent ITEEA Conference in Milwaukee reported the event was very beneficial. Ann expressed her appreciation to the volunteers who staffed the NEWMA booth. Some takeaways were as follows.

- Many attendees expressed interest in the math videos and the Alliance.
- Publishers of *Tech Ed Magazine* were in attendance and are interested in writing stories about the Alliance.
- Denmark students who staffed the Alliance booth enjoyed the event and talked to many people.
- Ann was given medals and mementos by the SeaPerch representative at the conference. These items will be given by the North Coast Marine Manufacturing Alliance for its May 9 SeaPerch competition.

3. MATH VIDEO PROJECT

NWTC was awarded a grant through the National Science Foundation, which will fund additional math videos. KI, NWTC, and Robinson Metal, Inc. are the sites planned for filming the welding focused, math videos. It was suggested to identify on the website the areas each math video is applicable, i.e., *MIG welding*. Keywords should be utilized.

The lesson plans will be done by an NWTC instructor. Filming will begin in May. The grant requires completion of the videos by the end of August. Additional math videos will be produced as needed.

Real life applications are a very powerful resource for teachers to use in the classroom. Oran Nehls recently met with the Denmark High School math team in an effort to brainstorm some ideas for the math videos. Ann plans to pilot this effort by having member companies in attendance submit a real life math problem at the next K-12 Task Force meeting. Ann will email the math problems to the schools to have them forward to their math department.

Andy Bushmaker and Ann will be giving a presentation regarding the math videos at the Wisconsin Math Council meeting on May 7 in Green Lake.

NEXT STEPS

- ✓ **Andy Bushmaker, Kari Christoph, and Shannon Niccum were asked to bring to the next K-12 Task Force meeting a real life math problem from their company that can be applied to student learning.**
- ✓ **Jennifer Rauscher will confirm with three Plymouth High School teachers who recently completed an extensive math research project to present for 15 minutes, followed by a brief Q & A session. Their presentation will be given at a future K-12 Task Force meeting.**

4. UPDATE ON THE EXCELLENCE IN MANUFACTURING/K-12 PARTNERSHIPS AWARDS

The awards dinner is on Wednesday, October 21 at the KI Convention Center in Green Bay. **Nominations will be mailed May 1.** People can nominate themselves, a company or school. Last year New London High School students and A to Z Machine Company, Inc. collaboratively manufactured the awards. Kari Christoph will look into the possibility of coordinating the manufacture of this year's awards.

NEW THIS YEAR

- Auction items will be on the expo floor beginning at 4:30 p.m. during the cocktail reception. This will allow people not attending the dinner to also bid.
- Two to three videos will be featured at the beginning of the dinner that will highlight how technical education has changed a person's life and how they are successfully employed because of it. The videos will emphasize how manufacturers and educators are working together to help change lives.

5. NEXT STEPS AND NEXT MEETING

The next NEWMA K-12 Task Force meeting will be on Friday, May 15, 2015, 8:30 to 10:00 a.m. at KI. Agenda items include the following updates; Employability Skills Training, Math Videos & Related Efforts, Manufacturing/K-12 Partnerships Awards, Manufacturing First Expo & Conference.

- ✓ **Members are encouraged to contact Nikki Kallio at nikkikallio@yahoo.com if they have information they would like tweeted on the Alliance's website.** Job openings and STEM updates are a few of the items that can be tweeted.
- ✓ **Please promote nominations for the Manufacturing/K-12 Partnerships Awards on October 21. Nomination forms will be emailed on May 1. Ann will send a press release to the membership.**