

Meeting Minutes

Engineering Technology Advisory Board Meeting

April 10, 2018

7:00am-8:00am

Collaborative Labs Water (EPI Tech Campus)

Chairperson—Mike Brewster, Monin, Inc.

In attendance: Scott Talcott, Matthew Smith, Susan Garrett, Susan Biszewski-Eber, Natavia Middleton, Mike Brewster, Lara Sharp, Tim Nemes, Gabriel Yeager, Joseph Benavides, Fred Tucker, Karen Sommerville, Peter Buczynsky, Michelle Hintz-Prange, Steve Heppler

Not in attendance: Brian Bell, David Reese, Dean Rock, Donald Houdek, Eric LeTourneur, Greg Lewis, Greg Seay, Ken Conforti, Marcos Cabrera, Steve Askew, Dennis Daniels, Rodney Rohrs, Nancy Crews, Melissa Lostraglio, Pam Temko, Diane Hufford, Andy Malcolm, Jim Gilmour, Bob Castro, Brenda Skinner, Kozitte Kaun, Stefanie Bischoff, Diane Spaulding, Francois DeForges, Grace Smoker, Joe Moretti, Marta Przyborowski, Lannette Reeves, Louis Grilli, Becky Burton, Lisa Maciolek, Edwin Homan, Jerry Custin, Mike Smith, Ron Varghese, Joann Wright

7:12am Mike Brewster calls meeting to order

Prior meeting minutes were not available to review. Will be sent out with these minutes.

Apprenticeship—Susan Biszewski-Eber, SPC

The apprenticeship grant is moving along very well. I am having more success with manufacturing than IT or healthcare. We just took on another one that was approved: The people of manufacturing, run by Greg Serio. His goal is to push towards competency based Machining apprenticeships instead of hourly. Greg has developed a unique model that actually comes out to your company, will help to recruit, and then will bring the journeyman in to do the training. He's got some companies behind him and he is also working with people with autism and PERC. Apprenticeship week is in November. Last year we talked about IT, this year we want to talk about manufacturing. We are looking at how millennials can be in manufacturing. The local workforce was just given some additional dollars, as well as the mechatronics grant that Lara will mention. We are looking to have Joe Benavides, Gabriel Yeager, Greg Serio work out some ideas, like a panel. IF you are interested in learning more about it, please reach out to Susan Biszewski-Eber (biszweskieber.susan@spcollege.edu).

The grant has \$1,200 to offset the cost of apprenticeship training and AmSkills is the other program we are working with who also has industrial maintenance. SPC is working on the process to become a registered apprenticeship program provider with the state.

Workforce Institute—Susan Garrett, SPC

We have had wonderful participation in response to the programmable logic controllers course. We are fortunate to have two senior engineers from BRAAS teaching the PLC class. Both of them have passed the PMMI PLC certification exam and our first female student recently passed the exam. We have are a PMMI partner school, which reduces the certification fee to \$50 and provides scholarship opportunities towards education and attending conferences. There is another group that has come to our awareness, United Packaging Associates. They have only been around for a year, but they saw a need. They are excited about having the opportunity to engage students in a professional association.

Engineering Technology Update—Lara Sharp, SPC

SPC has been chosen to receive a Florida Job Growth Grant from the Florida Department of Economic Development in the amount of ~\$1.6M (over 2 years). The focus is mechatronics and machining training and will officially start June 1, 2018. The goal is to offer workforce training in mechatronics and machining. SPC will provide the mechatronics training through Workforce Institute, Pinellas Technical College (PTC) will provide machining training at the Clearwater facility, and AMSkills will also be involved. SPC will be using equipment and curriculum developed by a National Science Foundation Advanced Technology Education Center called AMTEC. It was originally developed for automotive training, but AMTEC and its industry partners found that a lot of the skills they wanted their automotive technicians to learn were the same skills used in mechatronics. It is web based and in several colleges across the country and there is also a trainer that integrates with curriculum (developed by FANUC). It has two conveyer belts, a robot arm from Fanuc, all the PLCs, hydraulics and its own electrical cabinet with single and three phase power. The trainer will be housed at the Clearwater lab, in the CC building after the building is renovated.

The program will be open entry/open exit. The content will be online and students can start classes on their schedule and self pace their work. For the lab work, they will use an appointment system (web-based) to schedule time on the trainers. An instructor will be on hand to help students and to check off their competencies. This training is supposed to be flexible and customizable for both the student and the employer. Participants will take a pre-assessment that will tell us which courses the student should take and then a learning plan can be developed for the student.

There is a credit piece to the grant. Engineering Technology will add an advanced manufacturing sub plan that will include mechatronics. That becomes official in the fall. As part of the grant, we will be hiring a faculty person to work within the engineering technology AS program and workforce institute. We will be working to articulate courses with workforce training up to 24 credits. They can then finish their degree with whatever credits are missing. We will have both options for students.

We are about pathways at St. Pete college. If they start at workforce but then decide to get a degree, we want to make sure they have that flexibility.

PTC will offer the machining part.... Lockheed Martin is our biggest part in that. They're the ones that wanted to see machining incorporated in the grant. We know they are not the only ones looking for that.

We will create a package of information explaining the grant, all its partners and options and then hold a special presentation meeting. The grant is two years with an overall goal of 300 participants and 240 completers (still being defined). The sustainability plan is for Workforce Institute to take over the AMTEC curriculum and the engineering technology advanced manufacturing subplan in the AS degree.

Susan Biszewski-Eber mentioned that the grant fits well with Apprenticeships as well.

Onboarding during the grant will be funneled through a program manager.

Peter Buczynsky , Pharmaworks: Just by definition of apprenticeship, there's a strong education part of that. At our place, we started bringing students, but they don't have the fundamentals. So when you are looking at the missing components, it's the industry part. There are some Lockheed Martins out there. But there are companies that need to know how this apprenticeship process works. They have mentors and don't even know it. Not just machining, but every

aspect. And that's the industry component. I think Apprenticeships are just thrown around loosely, and gets watered down with internships. There should be a clear line of what an apprenticeship is. And that's really heavy engagement. I think it's clear AMSkills should play a role in the fundamental training.

Lara Sharp: They did suggest that, but we need to have more discussion on what that looks like.

Peter Buczynsky, Pharmaworks: I like to use the word evolve. Just a few years ago, we didn't even have mechatronics. There is so much out there, that it doesn't matter what you look at, everything here has been packaged by an electromechanical solution.

Lara: I Met with Rockwell, and they mentioned how a lot of people need to understand networking. SO much of the industry is going cloud based. One of the electives we pushed in the AS degree is to take networking. So that's one of things we look at, how does this fit into industry 4.0?

Announcements--

Spring STEM Expo will be on the SPC Clearwater Campus (ES104) on Monday, April 23, 2018 from 5pm-7:30pm. General public is welcome.

BAMA and SPC are sponsoring a Manufacturing Career Fair on the SPC Clearwater Campus in ES104 from 3pm-7pm on Wednesday, April 25, 2018. The event flier is attached to these minutes and provide the link for signing up to be a participant.

Mike Brewster called for a motion to adjourn. Seconded by Lara Sharp. Meeting adjourned at 7:55am.