



WELDING Advisory Committee MEETING MINUTES

Growing jobs, careers, communities...

DATE: April 12, 2018
TIME:
LOCATION: I TECH 7
COMMITTEE
CHAIR: TBA
PROGRAM
COORDINATOR: Mark Beaulieu
STAFF: Dr. Todd Scott, Vice President of Instruction
Note taker: Anne Marie Acord

Present: Mark Beaulieu, Mike Goodwin, Michele Korkowski, Christina Van Alfen, Dr. Todd Scott, John Elsnab, Jake Nowdesha
Absent: Arne Hulgren, Jill teVilde, Nolan Ferguson, Brian Hummer, Chris O'Neill

COMMITTEE AGREEMENTS and/or RECOMMENDATIONS TO COS:

- ✓ Mark will check into adding a math component such as Geometry, Algebra and tape measuring reading.
- ✓ Mark will continue to check into steel supply to sell through the new welding club.
- ✓ The Committee will elect a Chair at their next meeting.
- ✓ The Committee should meet more often at the beginning for just a short time to bring the committee up to speed on the Welding Program and solicit additional feedback from Industry to help boost the welding program.
- ✓ Mark will continue with Skills USA in the near future.
- ✓ Mark is working on updating the Curriculum.
- ✓ Mark will continue to work on holding an EXPO.

NEXT STEPS

Lead/team

By When?

• Welcome and Meeting Start-up

✚ Welcome and Meeting Start-up – Chair

Sign in and Introductions: Chris O'Neill will not be able to attend meeting today. We will be removing Brian Hummer from Advisory. Brian moved out of the area. Arne Hulgren was not available today and Dan a COS student had to be in Redding today.

Mark Beaulieu asked if he was the Chair. Dr. Scott stated Mark is currently the Chair. Michele Korkowski nominated Mark Beaulieu. Dr. Scott stated that Mark cannot be the Chair. Dr. Scott cannot be the Chair. Mark Beaulieu asked if Mike O'Neill would be interested in being our new Chair. Dr. Scott stated the only commitment is running our Advisory Meeting twice a year. Mike O'Neill stated he is in. Mike asked who takes minutes, and we explained the Administrative Assistant takes minutes. Dr. Scott stated we will need to vote and run the meeting again currently. Mike stated he could run the meeting as long as Dr. Scott could steer him in the right direction. Dr. Scott stated we have one nomination on the floor is there anyone else interested? Jake Nowdesha, second, Mark Beaulieu, third. All those in favor, signify by saying I. Anyone opposed, no. Mike asked if he could follow the Agenda. Mike asked if we did the welcome and meeting start up already.

Mike welcomed everybody and asked if everyone signed in. Mike stated we will review the minutes from the last meeting and then do updates to the program.

✚ Review Minutes-

Mike asked where the minutes were from the last meeting. They are behind the Agenda. The Advisory reviewed the minutes. Mike asked if he needed to read the last minutes. Dr. Scott stated we will go over the minutes and if anybody has questions, to please bring them up. Mike stated we accomplished quite a bit at our last Advisory Meeting. Mike asked Mark if there is anything in particular that he would like to point out from last minutes. Mark started with the updates.

Updates-

- Mark stated now that we have Elumen up and running, we will be able to make updates to the program with terminology and curriculum. Curriculum has not had any work done in quite a few years. Mark stated an update is in the process and will be completed this by the end of the school year. This will be presented to the curriculum approval board. Once this is approved, Mark can make start making changes to the program by adding or splitting classes up. Students need more practical hours than they are receiving. Right now with classes we have in the curriculum we are condensing the classes and there is quite a bit of information that is broadening over a few semesters, instead of one semester.
Mike asked how many students do we currently have in class. Mark stated we have 68 or 69 students enrolled and class and this has gone up about 30% this year, so it's progressing.
- Mark stated we have been working diligently, making students marketable with affiliations with Union Boilermakers, which we hosted last semester and we had the Union Pipe Fitters here this semester. Pam Flitz came in and did presentations. The demand for welders has never been what it is currently. They have so much work currently, but can't start jobs, as there is nobody to man these jobs. There are billions of dollars in California sitting there to start up on jobs, with the Boilermakers and Pipe Fitters, but they do not have the skilled people to put to work on these jobs. They are building new training facilities for the Apprentices. One training facility will be outside of Yuba and the Boilermakers in Salt Lake City is building the biggest Training Facility in the US. The Boilermakers and Pipe Fitters want students right out of school. They do not want students picking up any bad habits from other employers. They want to train them, their way. Mark stated right now it's trying to get the abled bodies and students interested. The blue collar trade is gone and there is not much interest anymore, because effort is required.
- Mike asked if we promote the fact that this is an excellent way to make a living. Mark stated, absolutely. Mike stated welders can make \$80,000 a year and but in the real world, there is a paying their dues period of time. Mike stated the students will get an entry level job with that company. When the students walk out the door with these skills, they will be desirable, but they are going to have work for a while, before going up to that level and this should not be a big shock to them.
Mark stated that is part of his job here, giving the student the soft skills to the work ethic, safety, intriguing them, motivating them, to be productive and to use their time wisely. Mark informs the students what they will get out of it is what they put into it. Mark stated just because they can pass a weld test, doesn't mean someone will want to hire them. For example, if they have long hair or if they don't pass a drug test, this will be a challenge.
- Boilermakers gave wage skills for the Apprenticeship and any welding certifications they can receive at College of the Siskiyous which will move them up the ladder to become a journeyman to receive the full wages. They are putting the apprentices right to work, because they need them in the field. After 60 days, they have full benefits, medical, pension and there is a lot of opportunity. Just because they pass a weld test, they are not going to make \$80,000 a year right away.
- Dr. Scott asked about training centers and what do they do there? Jill has been working with the Boilermakers and the Union. Per Mark we are trying to get an alignment where we can meet their needs from employees. After they leave a program such as this, they would start the Apprenticeship program and they would need to get approved to go through a process. They will meet two nights a week, three or four hours a night for the Pipe Fitters and Boilermakers. The rest of the time, the students will be working during the week if there are local jobs in the area. Dr. Scott inquired if this is located, where there are job opportunities? Mark stated yes, that's why the training centers are located in Yuba by Sacramento Area and Salt Lake. The Boilermakers want to build another training center in central California. We have students that want to be in this area and Mark stated we have local entities that are hiring.
- New welders are installed, syncrowaves for the high end tig welding for water coolers. CNC plasma table is running.
- A burnout up on the shelves and another logo for the welding club.

Precision measuring, tape measure and Math to the Curriculum-

- With the approval of Dr. Scott, grant monies and local money, we are purchasing Granite Block on stands and getting some pipe gauges. All precision measuring instruments that are used for layout for learning the metric system.
- Some students don't know how to read a tape measure. Mark has been integrating this and would like to incorporate Precision Math in a Blue Print class.
- Mark stated they are going over welding symbols with new charts that just came in and also incorporating welding procedures specifications that the students will be using in the real world.
- For Math and Measuring, most students don't know how to do long hand division. The students rely on the calculator.
Dr. Scott asked if Mark will be adding this to the curriculum when updating in Elumen and Mark stated yes. This will added as a blue print course. This might be a 1 ½ credit course. Mark will get together with Dr. Scott and they will figure out how they will implement this course as it is a necessity.

Discuss process with Welding Club-

- We have approval and we now have a Welding Club. Mark worked with the students and came up with a logo design and it was approved with Dawnie from the foundation. Mark stated they are selling T-shirts, Fusion Union Welding Club and we have hats. This brings money into an account they have set up for the club, so the students can utilize funds for student needs or for the program, legally. We have people that will walk in and ask to fix this, or weld that. People want to make a donation and before we can't do that, so this allows us to do this now.
- Welding Clubs put on an Expo. Mark wanted to add this to the Agenda. Mark wanted to put on an Expo, but April has been busy with school and other meetings. Mark stated we will be having an Expo here. Lincoln stopped by this last week and Mark spoke with Silvio and Miller. There is another gentleman with Eslab. Mark would like to invite the High School students and have them take tours, feed them and do some demo's.
- Mike asked if the High Schools are feeding our program. Mark stated yes and we are collaborating with them. We are making sure they have the same equipment as we have at COS, so they can roll into what we are doing here.

- We are also working with Christina Van Alfen in Advanced Manufacturing with the High Schools. We would like to facilitate the High School programs and give them the basics on what the students need before they get to College of the Siskiyous.
- Christina stated that Welding is one of the pathways and grants that she is helping facilitate. We are going to be holding a mapping meeting, that looks at what the High Schools are offering, the skills they are teaching the students and then what the students might need at the High School level before they come to COS. We want to create a clear pathway for students that are interested in Welding and other Industries that we also offer and provide them that material as a marketing tool to attract students to our programs. This will create an opportunity for the High Schools to collaborate, information share, resource share and do things such as the Expo and to get the students interested and give them a path and build relationships.
- Mike asked how many High Schools are in the area. Christina state there are nine total in the County that act as feeders. We also work with Modoc High School.
- Christina is stated we are working with the High Schools on Dual Enrollment. This is where the students would earn College Credits while going to High School and that is another incentive for them to continue on into our programs. If the students are already earning credits, then they can continue in our sequences of classes. Mark is looking at the Curriculum as some of what is covered in COS cannot be covered in High School in the same time period.
- Mike asked if we can focus on Math with Tape Measuring. Dr. Scott stated what we are finding, is some of the heavier unit classes are not heavy for the Community Colleges, but too much for the High School Students to pull off with the number of hours. The High Schools have made the students change their schedules, with classes every 20 minutes, so we were having a hard time getting 48-54 hour course, which is equivalent to a 3 unit course. Dr. Scott stated one thought would be to offer this class as 1 ½ units and give the students the pre-welding skills.
- John asked if this was part of their Certificate or Welding degree. Mark stated that it is basically for their Associates Degree.

✚ **Steel Inventory-**

- Mark stated now that we have a Welding Club set up, we are working on getting a kitty, so we can start purchasing decent quantities of steel and have surplus we can put in our container. We would like to integrate Welding Management, so when outsiders come in from other communities, Mark would like to elect a student each day to reciprocate that customer and fill out a work order, get the materials and cut it to length. Currently the only place to get materials is in Redding or Medford. This will teach Management to the students. Mark discussed with another VP they would have quick books. This would be extra inventory for the class as well as the local communities, so we could add a small charge for that and the students could put a work order into the program. This will teach the students interpersonal skills.
- Mike stated there are donations made by the local businesses; their scrap, so we would not have to use our funds. It might be a way to save some money. Mark stated we have a deal going on with Far West. We have a few steel bins we have fabricated. Far West will send us the drops from the shear and we utilize all of that, weld and throw it back in the bin.
- Discussion regarding inventory of scrap. Mark stated Far West can't get materials from their vendors.
- NorCal currently has a lot of stainless from them in our bins.
- Mike asked if we have made sales yet. Mark stated we have not advertised yet for the welding club, because we do not have enough funds in our account to make these purchases, that's why we are selling items such as shirts and hats. We are promoting, so we can get some cash flow. Steel has gone up 30 percent in the last week and it might keep climbing. Mark stated China is producing these ingets of different alloys. China ships steel to the US and it goes to a steel manufacturing company and they are stamping those US made. This is not American made steel, it's Chinese steel. Mark discussed the AWS specifications for earthquake zones, working with the State and Cal Trans. Jake discussed there is buy America and buy American. The Government, such as Cal Trans, they are going to buy America, which is all domestic, all process space, which is hard to get.
- ✚ The Tariff wars should help it out a bit. It's been an off shore market for so many years. They are re-opening up their foundries now in the US. We have been farming out all of our employment and now we need to find skilled workers.

✚ **Skills USA-**

- Mark just spoke with a representative from Skills USA this past week and sign-ups for this year are August 1st. We are going to get enrolled in the skills. Mark is not sure how he's going to do this as we don't have student enrollment at this point, but Mark has developed a Chapter and we want members. College of Siskiyous has its own Skills USA Chapter. Now, it's just getting the students to become members. There is a small fee of \$15.00 per student, a year. The plan is to incorporate the Skills USA into our program next year and then we want to represent the College by going to competition at the State level. This is about professionalism. Mark stated we had a high school student that was in Dual Enrollment and won the regionals, 1st place a few weeks ago. Mark stated this student is leaving for the State Finals this week. Discussion about how this works. Mark stated you take your students to the competition; they need certain requirements, safety, etc. Each student is assigned a number, no names. The student is given a test on Theory and it could be anything from Blue Print reading to math questions. Most of the testing revolves around the process of welding. After the written test, they are given welding procedures specifications with certain materials. The Students have to cut their pieces, get them tacked up accordingly and perform the welds, by the welding procedure specifications. California is a week competition. The Nationals is a week competition. The Gold Medal winner from each state can receive scholarships for first place, which could pay for college for the first year, an \$800.00 welding machine, 2nd place could receive a nice new auto welding hood and a set of torches. Prizes are 1st through 5th place. It creates some competitiveness with the students. It's good for employability as this is information they can put on their resume. It teaches the students ethics and integrity.
- Discussion with Dr. Scott regarding what the students are asked from Skills USA, regarding competitions and theory. Dr. Scott was wondering if we could hold a Skills USA Academy and where you could train for the Skills USA.
- Mark stated one of his students brought in the paperwork he got on line that was sent to all of the schools. Mark printed these out and they had the welding procedure specifications, so Mark can utilize those in class. Mark also has a portfolio as well from years ago from previous competitions that he integrates into the program, which are some good tests, particularly on theory.

- Discussion regarding could a Skills USA be through our regular program or do we create a different program for this? Mark stated, in speaking with the High Schools with Advanced Manufacturing, we would like to hold a county competition here, once a year for all the High School Students. They could compete against each other here. What they are doing at the competitions is what they are learning in class. This is an extra bonus for them and the students get some competitiveness as well as motivation.
- Mike stated at Shasta College they teach at night. Shasta College brings in Vendors of the most popular equipment.
- Mark stated the Skills Competition, is the same thing. The Boilermakers and the Pipe Fitters are sending some managers down to the competition this week, because they want these students.
- Received handout-Christina asked if that's what we are thinking of as far as incorporating the Expo with the vendors. Mark stated yes and he has already spoken with Lincoln, Eslab and Miller Reps and they are very interested. They were going to put time aside to squeeze it in this month, but it will happen later as Mark doesn't want this to be rushed. They would like to supply gifts and do a raffle to the high school students. Mike stated you want to plan it and give them enough time.

✚ Syllabi-

- Mark handout out the Syllabi and stated at the last meeting, Dr. Scott picked out a few items regarding the Syllabi. Our Syllabi was not smooth. Our new Syllabi are handed out to students on the first day of class. This is just one Syllabi for the beginning welding. Mark made some corrections and made sure we are in alignment with the College. Per Dr. Scott, there are many regulations on the community colleges of what you can and cannot do. We can review this now or at next meeting. John pointed out the safety portion at the mill. Mark picks a day every semester and runs all of his class through confined space and does presentations. Mark stated Dr. Scott audited one of his classes for Mark's 10 year. They get into lock out, tag out and data sheet. Safety is number one.
- Discussion about Airgas and safety. Mike stated Airgas sells safety gear and they have decent prices.

✚ New Equipment-

- Mike stated one thing he saw at Shasta College, was the Arc System. It is a virtual reality welding set up for educational purposes. They are only sold to schools. They are not generating any use of gas. The computer in the welder and retains everything that the student does, so each student can be graded and it will print out their trends and how the student is welding. Christina Van Alfen stated we purchased one that is in Tulelake. It is a Lincoln model. Christina went up to Tulelake and observed what Mike just described and went through the demonstration. The intent to purchase this was to utilize that County wide to use in the Expo's so it can be brought down for demonstrations. It is housed in Tulelake. Dr. Scott asked if this could be used by substituting in place of lab time. Mike stated no and he will bring literature to Dr. Scott regarding this. Mike stated this is video game, but it teaches them manipulative skills. For cost savings over time, this would be great and Dr. Scott, inquired regarding the cost of the Lincoln Virtual Welder? Christina stated \$60,000. Mike stated we could purchase a Miller for \$20,000. Dr. Scott stated it's worth exploring and how much this might save us at College of the Siskiyous if we were to purchase a few of these virtual reality welders. Discussion about virtual reality. Mark stated we have the space for this in the building. Christina stated we should bring this down here for the next meeting and Expo.
- Mark stated he is working with Dr. Scott on getting a quote to build vertical handicap chairlift to get installed outside the building to be able to access to the upstairs platform, because state law requires it. The student can't get upstairs, so it needs to be ADA compliant. Christina asked what the cost will cost to do the space upstairs. Dr. Scott stated, he did a sequept for it and it was \$55,000. Mark stated, it's a vertical lift that would spin around. There is a tier at the top of the stairs, so the hand railing would have to be modified to specifications and maybe have a folding door that folds in. The lift will turn them around and they can roll right into platform and into the classroom.
- Mark stated we purchased a brand new Engine Driven Welder from Airgas. It's a 600 turbo diesel winterized air compressor. Mark stated we bought this so will be able to replicate job site environment for pipe welding structural. They will be able to teach students, maintenance on engine driven welders and basically how to use them in a safe and effective manner. It will also allow them to do repair work around the college and mobile jobs for the community. It's a multi process welding machine.
- Mark stated we purchased a brand new Cat Forklift, during the winter break. Now the program has its own forklift to safety move materials, unload trucks. Before we had to borrow maintenance's equipment.
- Mark is finishing up a certification in May through Ives Training. Mark will be certified to train students and give them a valid federally approved forklift certificate. We would like to offer a class on Friday's down the road and maybe once a month and incorporate that into the program. This would be a one day class. The express class would be a two day class. Ives training is the only accredited facility recognized by the Federal Government. Trainers get mandated for work site incidents.
- Mark stated we purchased a new heavy duty drill press.

✚ AWS Books for Program-

- We received the new AWS books the current, VI.I. Mark received all 5 editions of the welding encyclopedia, from theory to electrical. Mike asked what AWS mean. Mark stated they set the regulations and compliances for welders and employers. It is the highest standards there are for welding.
- Mark stated we are purchasing a new Micro Tig Welder. This is new technology- Watched a Video.
- Mark stated we are purchasing a classic welder. It is basically a hot air plastic welder that we can repair many types of europane, for plastic liners, for pools and just about anything made from plastic.

✚ Other-

- Mark stated we will be offering an evening welding class, which will start June 9th on Tuesdays, Wednesdays and Thursdays from 5:30pm to 9:15pm. We will offer beginning welding and fabrication.

✚ Adjorned and Thank you per Mike.

