School of Applied Technologies

Welding Advisory Committee

Date: October 10, 2013

Called to order: 4:10pm **Adjourned:** 5:10pm

Chairperson: Jim Berry **Person completing report:** Teresa Maynard

Members present from industry: Augustin Arredondo, Robert Osborne (AeroParts Manufacturing), Mike Thomas (Rocky Mountain Testing CWI – certifies some of our students)

Members present from CNM: Jim Berry, Kay Hamby, Mark Newlander, Jim Gore, Donna Fastle (CNM Job Connection), Thayne Padilla (student)

Next scheduled meeting: Not discussed

I.Welcome/Introductions:
Jim Berry opened the meeting with welcomes and introductions. Joe Schaub and Jennifer Klecker spoke of a new pathway to a four year degree for CTE students. Eastern New Mexico University is offering a crosswalk to start a bachelor's degree on-line for CTE students to pursue a four year degree. We would appreciate your help spreading the word about CTE education throughout the community. The benefits of CTE education is not always recognized at the high school level. Also, Jennifer & Joe spoke about the resources that they provide for the students and take to the students through classroom presentations, workshops, information sessions, etc. They are both career developers and help the students decide the pathway that they really want to pursue. They are resources for getting the students in the door, getting them registered, getting them through the program, and getting them graduated.

II. Minutes: Minutes from the last advisory were reviewed and a motion was made, seconded, and approved

III. Reports:

- The Welding program is set up as a three term certificate; fourth term is the degree. The first term we teach introduction to stick, tig, mig, and oxy. Second term we teach stick, tig, mig & pipe. Third term we teach stick, tig, mig, and fabrication. Stick, tig, and mig is repeated all three terms. Each class is 75 contact hours. By the time they are done they have done 225 contact hours per process. We do mostly carbon steel. In tig we do a little bit of aluminum and a little bit of stainless steel. Kay has one class where they are fabricating saddles and stuff like that. So that is our program in a nutshell.
- This term we are running three sets of first term, two sets of second term, and one set of third term. So we have more students than we have ever had before. We also hired a new welding instructor so now there are four full time welding instructors, plus several part time welding instructors. We also offer Welding Fundamentals, which is an introduction to welding for students not pursuing a welding certificate or degree. That class is 135 contact hours. All the different processes are covered. We have always had a big waiting list so that is why we ran an extra session of first term. All of the additional classes offered filled up, so we will do that again in the fall. We graduate about 50-60 students per year. Job placement has been really good. Right now there is no problem getting jobs. A local defense contractor, L3's, said they were going to hire 30 more welders.

- Equipment: We are in the process of purchasing some welding evaluators. We have weld simulators currently. However, the weld evaluators will grade student's welds.

- We have also purchased three Millermatic 252's and four Lincoln Precision Tig 225 machines. Most of the machines we have are water cooled and they leak all of the time. Much discussion took place of the differences between the air cooled welders and water cooled welders.

- Aero Parts Manufacturing has hired four of our students. They start them off as sheet metal mechanics. However, they have had problems with our students not having enough knowledge in all of the alloys and their processes.

- Jim stated that it is hard for us to get students to come out certified on every process. We focus on the following certs: D1.1 FCAW and SMAW and the pipe certs. We follow AWS 's entry level certification requirements. If there is something that we can do to get our students up to grade for hire with AeroParts we are more than willing to bring you in as a guest speaker. Or if you guys have scrap metals and stuff you would like to donate – Jim could focus a little on it in his advanced tig class. Our next tig class starts 10/17/2013.

IV. Old Business

- Kay invited Thayne Padilla who is the new President of CNM's Student Chapter of the American Welding Society (AWS) Club. He has two new officers for secretary and treasurer. Both seem pretty enthusiastic. This is his last term here – he is moving out of state. Thayne's goal is to generate a little more enthusiasm and awareness among high school students that have welding programs. Although, I have heard that Sandia HS is shutting down their welding program. We would like to take presentation & demos to peak the high school student's interest that are already studying welding. We wanted to take some chopper bicycles to show fabricated objects of different styles. The vice president has a power point presentation that he wants to deliver. No student projects are taking place at this point in time. They are going to try and do some community service.

  - Jim introduced John Bronisz our Dean who welcomed everyone and thanked them for coming.
  - Mike Thomas is also a member of the NM Chapter of the AWS, Horizon Trikes. They are having their first meeting for this fiscal year and would like to have as many people as possible attend. This meeting is a scholarship meeting on campus to discuss scholarships and awards. Kay Hamby will reserve an auditorium for them, January 23rd 6-8pm. This meeting is geared toward students. They give away gloves, etc. They teach the students how to complete scholarship applications and complete them correctly so that they will be accepted. This is also their awards ceremony.

V. New Business

- Ventilation for TC-138 has been through the design process and should go out to bid soon. We are looking forward to having a well-ventilated lab.

- Moriarty High School – we have a part time instructor teaching some of our welding classes / dual credit classes for high school students. They are teaching blueprint reading, oxy welding and stick welding. So they'll get a few of their first term classes done. Once the students graduate high school they come to CNM. This is our first year and so far it is going pretty good. We have donated 10 machines to Moriarty High School as well as materials & gasses for them to weld.

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- Skills USA – is a national competition where a number of different programs in high school and college complete on different things. One of them is a welding competition. We historically win the state competition every year. We have three different categories, Sculpture, Team Fabrication and Individual Welding. They do all four processes - oxy cutting, mig, stick, and tig, and they have to build a little project. The Fabrication is a team event where they have to draw up their own blueprint and they are given the building materials to use in order to build their project. The Sculpture is open ended and they can do a variety. We won second in the nation in sculpture – the winner of which is going to the Iron Workers union to work at Los Alamos Labs. We won the state on all three last year. We pretty much win most of the time. Farmington is getting some tough competition coming up this year.

- Another one of our female welders has gotten approved and they are sending her out to Ohio State to get her a welding engineering job. There is some stiff competition for our best welders.

- Our class in Project Fabrication is where students use all of the different processes to make a project. January 17th is the in-house competition for skills. The State Skills Competition is in April. Mike Thomas will be judging the welding sculpture competition.

- Jim Berry is in the process of changing the name of our Welding degree. We currently have an Associate's degree called Metals Technology with a concentration in Welding. The proposed degree will be a Welding Technology Degree.

- We are trying to get rid of all of our multi-process machines. Discussion around the new sand blaster machine – keeps blowing out sand. It's just a small two foot square sandblaster. It was recommended that we need to put a vacuum right on the top of the machine so it will create negative pressure and the sand won't escape out the window.

VI. Adjournment – Motion to Adjourn @ 5:10