**Modesto Junior College**

**Machine Tool Technology Advisory Committee Minutes**

**March 19, 2015**

The meeting was called to order at 8:10 in classroom AA102, MJC West Campus by Jeff Weaver.

Members Present: John Beam Kevin Walker Dennis Lucas

John Kenshalo Randy Thoe Martin Cardenas

Jason Decker Jeff Weaver

Minutes from last meeting on October 14, 2014 presented for approval.

**Old Business: None**

**New Business:**

1. **Report on the status of program at Davis High School**

**Thom Brumley was not able to attend the meeting, but sent this E-Mail short report:**

I will not make to the meeting on Thursday.   Too many things happening in the same week- end of 3rd quarter and start of 4th quarter, CAHSEE, and Occupational Olympics

I do have a long break on Thursday, so I could come by after I get done with students at 11:35- let me know.

I do not have my numbers yet for next year, so hopefully everything stays about the same.

I am trying to see about making one of my wood classes also count as Ag or even more of my classes in the future, as I have been working closer with them since I get a lot of Ag kids in my classes anyways.

1. **Planned MJC Class schedule for Summer and Fall 2015**:

For the first time in a number of years, the budget situation will allow the offering of a machine tool class during the summer at MJC. Jason Decker is scheduled to teach a MACH 301, first semester basic manual class at night. This will be a late start class that starts in July and will be conducted two nights a week. The Fall 2015 schedule will be similar to last Fall’s offering with the exception that the advanced CNC operator’s class will not be offered. This Fall schedule and those who will be teaching those classes are likely to be modified to best use the strengths of the instructors (yet to be hired).

1. **MJC enrollment report** by Jeff Weaver:

Lowest overall number in six years primarily due to cancelation of CNC programming classes.

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|  | SP 15 | F 14 | SP 14 | F  13 | SP  13 | F  12 | SP  12 | F  11 | SP  11 | F  10 | SP  10 | F  09 | SP  09 | F  08 | SP  08 | F 07 | SP  07 | F  06 | SP  06 | F  05 |
| **Day Manual**  **(25,4,5)** | 34 | 40 | 41 | 38 | 41 | 33 | 33 | 36 | 37 | 34 | 33 | 37 | 30 | 26 | 24 | 28 | 18 | 14 | 19 | 14 |
| **Night Manual**  **(30,10,3)** | 43 | 41 | 35 | 31 | 29 | 29 | 32 | 28 | 30 | 29 | 24 | 31 | 28 | 22 | 32 | 32 | 26 | 27 | 24 | 33 |
| **CNC Programming**  **& Blueprint** | 0 12 | 26  14 | 17  24 | 20  20 | 25  25 | 34  20 | 29 | 31 | 27  16 | 29  9 | 27  14 | 27  13 | 28  10 | 16  9 | 21  15 | 13  3 | 17 | 23 | 22 | 22 |
| **CNC**  **Operations** | 7 | 11 | 7 | 9 | 6 | 17 | 10 | 18 | 10 | 10 | 6 | 15 | 12 | 12 | 9 | 4 | 7 | 5 | 13 | 10 |
| **Independent Study** | 8 | 2 | 5 | 4 | 4 | 5 | 5 | 6 | 8 | 2 | 5 | 3 | 11 | 13 | 13 | 14 | 3 | 14 | 14 | 11 |
| ***Total*** | **104** | **134** | **129** | **122** | **130** | **138** | **109** | **119** | **128** | **113** | **109** | **126** | **119** | **94** | **114** | **94** | **81** | **83** | **92** | **90** |

1. **Equipment Report** - Jeff Weaver
   1. The installation of the new operating system for the Brown and Sharp CMM was completed on March 12th.
   2. Funding was made available last fall for the purchase of a new surface grinder. A new Chevalier 6x18 hydraulic grinder was purchased and final installation was completed on March 12th. The purchase of this machine was expedited as the size of the night class that use surface grinders is unusually large this semester.
   3. Funding was also available for the purchase of two Bridgeport type 2 axis CNC/manual vertical milling machines with a basic ProtoTrak controller. Purchase request has been submitted but the machines have not as of yet been ordered.
   4. A Rockwell 10x24 lathe that was acquired from the transportation department was repaired and sold earlier in March for $1,277.77.
   5. The Cincinnati #2 tool and cutter grinder was sold in March for $295.50. This machine was seldom used and the space was needed for the new surface grinder.
   6. The Turnmaster lathe has been inoperable for about a week as the Z axis feed gear rack was damaged. It is currently dismantled awaiting completion of repairs.
   7. The sale of two of the vertical milling machines is anticipated to make room for the two new units that should be ordered soon. Most likely the small hobby type machine and the Alliant mill will be sold.
   8. The Heidenhein DRO units that were installed on two of the older Bridgeport mills eleven years ago both failed with apparent power supply problems within three weeks of each other. They have been sent to the manufacturer for evaluation and will likely be repaired. The machines are still operational and being used by students.
2. **Retirement of Jeff Weaver and John Branlund**

As previously reported, the lead instructor in the machine tool technology program, Jeff Weaver, will be retiring after 26 years at the school. John Branlund who has been teaching the CNC programming classes for around 15 years had a stroke in December and, due to the short lead time, all of the CNC programming classes that he was scheduled to teach during the Spring semester had to be cancelled. At least two new instructors will need to be hired to fill these positions.

**a . Process for selecting replacement personnel**

It was explained that the selection of part time instructors was a much simpler process than for full time/tenure track positions. The selection for adjunct instructors is at the discression of the appropriate division dean and can be typically made as that dean sees appropriate. Finding an effective person to teach the CNC programming classes will be the most difficult part of that hiring process.

Although Jeff Weaver formally announced his intent to retire in October, the official posting of his position did not take place until March 15th. Closing date for applications is April 13th. Committee members noted that the position will be posted for less than a month and questioned the wisdom of this short period of time to advertise for a replacement. Jeff Weaver reported on the process used to find both full and part time faculty and stated concern that it was not easy for those coming from an industry background to be aware of openings at the school in the technical education areas. A discussion followed and John Kenshalo and Dennis Lucas said that they would see to it that information regarding these positions would posted on Craig’s list and other appropriate media. All agreed to notify all those who they know in the industry about the need to fill these two positions at the school.

**b. Advisory committee input**

It was requested that two members of the advisory committee be available to sit on the selection committee for Jeff Weaver’s replacement. John Kenshalo (who was on the committee when Jeff Weaver was hired) and Dennis Lucas volunteered to do this.

**c. Changes to program**

Jeff Weaver commented that with the hiring of new instructors, this would also be the appropriate opportunity to consider changes to the overall program structure. He stated that he would be available to assist the new hires, but that he could not return as a paid instructor for 180 days from his retirement date.

## **Other Business**

* 1. John Knnshalo, a member of the committee since around 1975, reported that he had retired and asked that the new owner of his business be his replacement on the committee. We would like to formally thank John for his many years of service and welcome Martin Cardenas, the new owner of Camco as the newest member of The Modesto Jr. College Machine Tool Technology Advisory Committee.
  2. The current unencumbered Fund 12 “Projects” account balance is $12,592. Roughly half of this may be needed to augment funds to purchase the new milling machines.
  3. The program currently has a credit of about $900 at Rowe Machinery in Santa Cruz.
  4. In December Jeff Weaver conducted a contract training class dealing with basic lathe operation for TID employees.
  5. Jason Decker spoke of problems that students often have of not being able to get close enough to see during demonstrations in the lab. He reported that he was currently working on a video system which would have a camera incorporated into a pair of safety glasses that would project wirelessly what he sees onto a flat screen monitor. Such a monitor could be easily hung from any of the power buss systems in the lab and make viewing easier to those students further away. Jeff Weaver stated that there was support for the project at the dean level and that funds were available. Such a system should be available for testing before the end of this semester.
  6. The meeting was move to the shop area where the new surface grinder was shown. A discussion as to which vertical milling machines should be sold to make room for the two new ones that were to be soon purchased was held. It was decided that it would be in the best interests of the program if the Aliant and small green mill were sold.

1. **Program Relevancy Question**

The committee members present indicated that they felt that with the hiring of a replacement instructors for Jeff Weaver and John Branlund, the Machine Tool Technology program at MJC if program as it now stands meets the needs of local industry.

Meeting adjourned at 10:15