

Modesto Junior College

Machine Tool Technology Advisory Committee Minutes

December 2, 2010

Meeting was called to order at 8:15am in classroom AA102 on the MJC West Campus by Jeff Weaver

Members Present: Jeff Fulan Kevin Walker
 Bob Lee Brad Massey
 Thom Brumley Jeff Weaver

Minutes from the last meeting on April 8, 2010 were read and approved.

Old Business:

None

New Business:

A. Welcomed new member, Brad Massey of Prema Precision Machine.

B. Report by Thom Brumley as to status of program at Davis High School.

1. Student enrollment lower this semester primarily due to the opening of Gragori High School
2. Equipment upgrades
 - a. Existing CNC router system upgraded to a closed loop system for greater reliability
 - b. CNC engraving system purchased
 - c. Bandsaw purchased
 - d. Mastercam software seats upgraded to latest version

B. Report by Jeff Weaver as to the status of program at MJC.

Enrollments:

	SPR 11	Fall 10	SPR 10	Fall 09	SPR 09	Fall 08	SPR 08	Fall 07	SPR 07	Fall 06	SPR 06	Fall 05	SPR 05	Fall 04	SPR 04	Fall 03	SPR 03	Fall 02	SPR 02
Day Manual (27,4,3)		34	33	37	30	26	24	28	18	14	19	14	29	17	33	11	25	18	24
Night Manual (20,1,8)		29	24	31	28	22	32	32	26	27	24	33	13	17	14	18	12	10	23
CNC Programming & Blueprint		29	27	27	28	16	21	13	17	23	22	22	23	16	16	12	16	0	21
CNC Operations		9	14	13	10	9	15	3											
Independent Study		10	6	15	12	12	9	4	7	5	13	10	7	10	13	10	14	12	18
Total		2	5	3	11	13	13	14	3	14	14	11	13	8	7	5	7	9	
		113	109	126	119	94	114	94	81	83	92	90	85	68	83	56	74	49	86

C. MJC class teaching schedule for Spring 2011:

1. Spring classes taught by Jeff Weaver:
 - a) Day—MACH 211 and 212 (1st and 2nd semester manual classes) M-W-F
 - b) Night – MACH 301, 302, 303, 222 (1st, 2nd, 3rd semester manual class and basic CNC operator class) T-W-TH
MACH 303 will provide a third semester class for both the day as well as night program and will be taught concurrently with 302.
2. Fall classes taught by John Branlund (Monday night):
 - a) MACH 219 & 218 (basic CNC mill & basic CNC lathe programming)
 - b) MACH 220 (advanced CNC programming)
 - c) INTEC 376 (basic blueprint reading)
3. No Machine Tool classes planned for summer 2011

D. MJC equipment Report - Jeff Weaver

1. Bridgeport/Romi CNC lathe W/Ezpath conversational control from LLNL in October (currently not operational)
2. Sold Reid surface grinder (\$1,101) in October to make room for lathe (\$1,000 profit)
3. CMM repaired over summer – new flat screen monitor installed
4. “New” student computers in lab inspection room
5. 2 of 4 heating elements replaced in high temp furnace in October (\$1,200)
6. Mitutoyo 12” digital height gage purchased over the summer
7. “Light” benchtop CNC mill at DeAnza College currently in negotiations
8. All machines (except Bridgeport/Romi CNC lathe) operational. DoAll bandsaw needs to be hardwired and #3 LeBlond lathe needs to have spindle break repaired. Time has been unusually tight for maintenance of machines this semester.

E. Activities and Projects - Jeff Weaver and John Branlund

1. Sold scrap carbide in June -- 340 Lb. @ \$8.25 = \$2,757 (profit)
2. Sold 27 spray balls @ \$80 = \$2,160
3. Jeff Weaver & John Branlund attended Haas demo day at Selway on June 9th
4. John Branlund traveled to Salt Lake City in July for 3 day Feature Cam training
5. Jeff Weaver attended MTTA conference (2.5 day) at CP/SLO in July
6. Jeff Weaver attended IMTS show in Chicago (3 days) in September
7. Jeff Weaver & John Branlund attended Htec conference 1 day) at DeAnza in November

Other Business:

- C. Jeff Weaver stated that there needs to be a serious effort to find a part time instructor for beginning night class. There is funding available as this is currently a paid overload assignment. At this time there is no one that has knowledge of the equipment in the lab or the machine tool program in general other than Jeff Weaver. This is not good planning or risk management. If something were to happen to him, the program could be in serious jeopardy as there is currently no one available with knowledge of its operation.
- D. Program certificate “Mapping” document discussed at length and committee members presented minimum skill requirements and occupational targets for the Degrees, certificates, and skills awards available in the Machine Tool Technology area.

- E. Jeff Weaver formally asked if the Machine Tool Technology Program as currently offered needed to be modified in any way to better meet the needs of the local industry. The committee responded that the current curriculum and lab was appropriate but recommended that an effort should be made to acquire and incorporate more combination manual-CNC lathes and 2-axis milling machines in the lab. The committee also recommended that that school should consider using Mastercam CNC programming software in the MACH 220 advanced programming class as it is more commonly used by shops in the area than the currently used FeatureCam. As the initial as well as yearly maintenance cost of the MasterCam software would be considerably more than FeatureCam, purchasing a few seats at this time could be an option.

- F. Current Fund 12 “Projects” account balance is \$14,841. Anticipated cost to repair the recently acquired Bridgeport/Romi CNC lathe as well as the anticipated purchase of small CNC mill from DeAnza College will likely be taken from this fund. The committee members stated that attempts to maintain a \$10,000 balance to cover emergency repairs should continue.

The meeting was adjourned at 9:30.