

**College of the Redwoods
Manufacturing Technology Advisory Committee
Meeting Minutes**

Tuesday, December 10, 2013
5:00-6:00 PM

Eureka Main Campus Room AT133 (Machine Tool Laboratory)

This meeting was called to order at 5:03 PM

- Welcome and Introductions

Jen Carpenter introduced herself and asked that each committee member introduce themselves.

Committee members present:

Jackie Adams	Humboldt Redwood Company
Jen Carpenter	Wing Inflatables / MT Advisory Committee Chair
Jeff Cummings	College of the Redwoods
Tim Daniels	Kokatat
Jacquiene Debts	County of Humboldt
Bill Dilling	Dilling Machine Works
Dave Enos	HROP / McKinleyville High School
Suk Choo Kim	CPR Aquatics
Jeff Kinzer	Student / Ironside Metal Works / Robert Goodman Wines
Steve McCluskey	Student
Byran McWaters	Dine Art
Claudio Mendonca	O&M Industries
Mike Peterson	College of the Redwoods
Josh Rice	Sierra Pacific
Brett Roslosnik	Fortuna High School
Jon Sapper	HCOE
Jack Sheppard	McKinleyville High School
Nick Shull	College of the Redwoods
Dave Stevens	Eureka High School
Danny Walker	College of the Redwoods

- Presentation by Jon Sapper

Jon Sapper spoke about significant changes that are coming to career technology education that affect how programs are funded. Last year, the state Governor eliminated ROP programs from the budget. There will be a two-year transition period for local areas to decide what they would like career technical programs to look like moving forward.

Each district gets to decide how to spend funds based on local priorities. Funding will now be based on a system of training that links K-12 with community college and CSUs.

The new model will create career pathways aligning K-12 with post-secondary options. In January 2014 the state will be initiating a grant for \$250 million for local areas to develop these pathways, systems, and networks. It will be critically important for the CTE programs, individuals from advisory committees, and the community to be involved in the process. The new model mandates that training programs are aligned and address the needs as identified by local economic development plans. This is a significant change and a tremendous opportunity because of the flexibility in how we design the system.

The future viability of our career training programs and how they meet the needs of local business and industry will be dependent on how well we work together.

- Program Update

Mike Peterson distributed the document *CR MT Advisory Committee Packet 12-10-2013.pdf*

- a. Program Review Data from Fall 2013

Peterson highlighted a piece of data from the most recent MT Program Review on page seven of the meeting packet. In 2012, the ratio of students to teachers in this program is 18.41 compared to the district average of 28.6. The 2013 Program Review data shows the ratio of students to teachers in the program is 18.24 compared to the district 26.8. The number of students in the program has held fairly steady while the district ratio has declined.

- b. Mechanical Generalist Training – Mechatronics

Jeff Cummings, Steve Brown, and Mike Peterson traveled to Sierra College earlier this year to visit their mechatronics program. We are looking at ways to adapt the program to meet local needs for mechanical generalist skills.

- c. ATMAE Accreditation

The MT program will be seeking external accreditation through the Association of Technology, Management, and Applied Engineering (ATMAE). When the team from ATMAE visits our campus, they will want to meet with program advisory committee members.

- d. CTEA projects

Career Technical Education Act (CTEA) funds are available for the program. These funds are intended to increase the retention and success of underrepresented student populations. This year's project will upgrade our Mori-Seiki SL-1 turning center

with new electronics and control computer. This upgrade will allow us to interface the machine with modern software systems and provide a state-of-the-art control system to train students.

A new emphasis in training mechanical generalists will require having equipment for training hydraulics, pneumatics, and microcontroller programming. This will help the program to produce well-rounded graduates that not only know how to make machine parts; they will know how to repair and service machines.

e. Validation of MT Learning Outcomes

Program Level Outcomes and Student Learning Outcomes for the program were included in the meeting packet. Peterson discussed possible revisions to learning outcomes for the MT-10 and MT-54B courses. The committee agreed that these revisions are appropriate.

- Industry Trends and Employment

The overarching trend in manufacturing is rapid prototyping and 3-D printing. This technology is quickly expanding and replacing other technologies. Additive manufacturing will continue to be a relevant core-concept in the program.

- Industry Recommendations for Program Improvements

There was some discussion about keeping the program specialized for machining and manufacturing. Many machinists are approaching retirement age and part of the draw for the program is that it is a well-developed machinist-specific program. While the MT program is an excellent program, a problem is that it is not advertised or marketed well.

The recently implemented Cooperative Work Experience course will allow students to receive college credit for internships. Non-credit courses could be developed to be used as a feeder to the regular program. While we don't want to move away from teaching machining, we do want to enhance our program by teaching skills that are marketable for our students, so mechanical generalist training is something that is necessary and should be part of the program without changing so much that were no longer training machinists. Graduates that can operate, troubleshoot, and repair manufacturing equipment are valuable to employers.

Many ideas were generated regarding increasing student interest in the program. These include, job shadowing, developing internship opportunities, producing industry projects in the classroom, holding community recognition events and competitive events for students, having strong post-secondary education connections including some from out of the area, and developing strong business and industry advocacy.

- Announcements and Other

The meeting was adjourned at 6:13 PM

Committee Membership List

Name	Title	Agency or Company
Jackie Adams	HR Generalist	Humboldt Redwood Company
Michael Baggot	Teacher	Ferndale High School
Steve Brown	Professor, Drafting Technology	College of the Redwoods
Jen Carpenter	Design Engineer / MT Advisory Committee Chair	Wing Inflatables
Jeff Cummings	Executive Dean	College of the Redwoods
Tim Daniels	Project Manager	Kokatat
Jacqueline Debets	Executive Director of WIB	County of Humboldt
Bill Dilling	CEO	Dilling Machine Works
Don Ehnebuske	Executive Director	Redwood Region Economic Development Commission
Dave Enos	Teacher	<u>HROP / McKinleyville High School</u>
Barbara Groom	CEO	Lost Coast Brewery
Bert Hafar	Associate Professor	College of the Redwoods
Bruce Hamilton	CEO	Wildwood Manufacturing
Susi Huschle	College & Career Resources Coordinator	Humboldt County Office of Education
Roger Kelly	General Manager	RJ Stevens Company
Suk Choo Kim	CEO	CPR Aquatic Incorporated
Jeff Kinzer	Student / Mechanical Technician	CR / Ironside Metal Works / Robert Goodman Wines
John McClurg	CEO	Fire & Light
Steve McCluskey	Student	College of the Redwoods
Byran McWaters	CEO	Dine Art
Sandy Neal	Director of Operations	North Coast Small Business Development Center
Mike Peterson	Professor, Manufacturing Technology	College of the Redwoods
Brett Roslosnik	Teacher	Fortuna High School
Jon Sapper	Assistant Superintendent	Humboldt County Office of Education
Jack Sheppard	Teacher	McKinleyville High School
Nick Shull	Associate Professor	College of the Redwoods
Dave Stevens	Teacher	Eureka High School
Danny Walker	Professor, Welding Technology	College of the Redwoods