March 20, 2015, 475 Edison Way Room 122, 12:00 p.m.

The following persons were present: Jerry Raeder, Greg Latimer, Duke Golden, Mike Stuart, Matt Turek, Jake Mathis, Juan Solis, Michael Labahan, Donna Saunders, Patty Aragona, Kelly Oswald, Laurel Santos, Marcie Iannacchione, and Barb Evans

1. Call to order: 12:10 p.m.
2. Introduction of members and guests
3. Approval of Minutes – Jake motioned to approve minutes, Mike seconded. Minutes approved as read.
5. Old business:
   a. Still working on NIMS credential program. Have been offering NIMS credentials as part of the TAACCCT Grant in Round 1 in 2012 - tests for four different credentials. NIMS credential system - 20 separate credentials that students can test for. Requires a written test as well as hands on skills test. In the process of having TMCC become an accredited institution.
   b. Kelly asked the board members what skill sets employers are looking for – show up on time, quality – making a good part. Quality control is a required course. Member asked if there are any classes taught on geometric dimension and tolerance. We do teach blueprint reading – small chapter. Datum structure is extremely important - understanding how the part needs to be ran – especially a mill part. Biggest - true position of holes. Form, fit and function. Geometric Design and Tolerance. Manual skills – precursor to CNC’s, have to have an understanding of machining processes before you can figure out how to program a CNC. Members agree that manual experience is necessary. Needs to understand cutting and what material is and how it needs to be removed. Currently offer one class on mill and one on lathe. We have four classes offered that are manual. All are lab. Measurement – be able to read a micrometer, sign bars, depth gage. Wouldn’t waste time on routers. Still teaching G codes. As long as they understand the codes. Kelly teaches them how to write a simple program. Simple edits – difficult to find in industry. Teach maintenance - yes, daily maintenance – looking at machine, refractometer, check coolant, adjust coolant, air filter. We do not teach repair – board agrees not to. Board agrees set up is not necessary. Can change a drill, tool length offset. Change an insert and recover and compensate. Safety – cleanliness, organization, clean and organized huge safety issue. Lean manufacturing – starting to teach that – benefit if they could work with lean and took more responsibility. Tool sharpening – not necessary. Lifting limitations – standing, dexterity – sit for 8 hours, minimal lifting, bending over. No real restrictions. Hearing impaired people – safety standpoint and communication.
6. MTECH Representatives – goes back to NIMS – there are certain credentials that require hands on skills demonstrations. Some we can grade and judge and some not. Some we need industry to judge. Still looking for people to judge – workload pretty minimal. Some projects require investment of time and energy. Will need help in certifying a part. We can set this up however we decide to. We need a minimum of two people to inspect part. If they agree on the part, don’t need a third person. We need two out of three people to agree it’s a good part. As we move in that direction, we may call upon the board to help with that. We can take part to you or have you come in to measure part here. Jake is here to help – his shop would be happy to accommodate whatever we need.
7. Kelly handed out AAS and Certificate of Achievement paperwork that we are currently offering. Board of Regents has allowed us to embed Human Relations and Math in our courses. Allows us to pull out six credits out of general education and can offer six additional credits of core. TMCC feels this is very beneficial. Allows us to just teach the skills they will actually use in a shop.

8. Advanced Manufacturing AAS Degree – this is a jack of all trades approach. Very valuable to IGT, Tesla, Amazon that assembles or moves a product around. Not intended to be a machining degree or technical expertise. Still a work in progress – draft of what it might look like. Wanted to make board aware of new degree – broader based degree. Good foundation degree.

9. Internships – haven’t done a lot with them. Next year we will need to run a bunch of students through internships. This is different than apprenticeship. Is there an opportunity to migrate – could they go apprenticeship? Goal is to find employment through internships. No obligation for the company to hire interns. Duke thinks apprenticeship is more cohesive for on-the-job training for a specific skill. Needs internship credit – can do dual. Can sign up for 1-3 credits. We just have paperwork to fill out – very effortless.

10. Review of Enrollment – 21 students in MTT 101, Juan has 32 students at night, 14 in CNC Mill class, 7 in Advanced Mastercam class. Currently teaching two grant-funded programs. Laure’l has 25 high school students for 30 credits. Can have as many as 60 high school students enrolled. Shop is utilized from 7:30 a.m. to 10 at night. JLM was awarded 14 new manual machines to put in our shop.

11. Schedule next meeting: Friday, September 18, 2015. Is anyone interested in hosting outside of TMCC? Great idea to see other shops.

12. Kelly announced we have 189 students that want to get into the summer CNC accelerated program. Anyone interested in helping with screening these applications? Starts May 26 – have to filter down to 20.

13. Adjournment: 1:50 p.m.