PETAC Meeting – April 15, 2013

Attending: Dan Caron, Thelma Brown, Rep Norm Majors, Karen White, Kevin Shyne, Val Zanchuk, Judy Houston, Nicole MacMillan (for PT of UNH)

Absent: Michele Munson, Bob Arredondo, Lisa Danley, PT Vasudevan, David DeWitt, Mary Laturnau

1. Introductions of all attending: Nicole is the new career placement coordinator for the College of Engineering and Physical Sciences at UNH and is sitting in for PT Vasudevan.

2. Minutes of February Meeting: Move to accept: Val Zanchuk Seconded by Dan Caron.

3. Justin Slattery from DRED was not able to be here today. He was asked to talk about workforce developments with a focus on STEM. Justin is also working with the advanced manufacturing groups.

4. REPORTS:
   a. Shyne Report: Kevin asked for the survey to be sent out again as the number of schools he is working with is diminishing. There is also a 25% turnover per average at schools that now need to know what is available. Why are some schools on that list and stay on that list? If an administrator calls Kevin, something usually happens. If he is contacted by a teacher, it may take longer or something may not happen that quickly. Kevin keeps on contacting people as they go through the process. Kevin is still focusing on 4 schools: Campbell HS, Goffstown HS, Hopkinton HS, and Wilton Lyndeboro. We have 40/70 high schools in NH with pre-engineering. We may have reached our saturation point. Some schools are doing something that we may also not be counting for our data. Michele holds the template for the survey so we need to update it and see if further questions need to be added. Nicole also does K-12 outreach for UNH. Nicole does survey the students who come in for tours. We are also still waiting to hear back from Corinne Cascadden as to whether she will be the Superintendent rep for PETAC. The website works goes forward.

   Kevin also attended the last EPSCor meeting in March. The Economic Development in Maine is working closely with Maine schools where NH model does not do so. Maine puts funding in the budget for it. Kevin will email the information that was handed out.

   Kevin is also submitting new PETAC members to the governor’s office for official appointment. Senator Rausch has been appointed to this board as well. Kevin asked whether we will be able to elementary school language in for funding. Rep. Majors is hoping for next year. Karen continues to represent for the other Superintendent position for Manchester. Kevin said he has $140,000 in the budget.

   b. The Laturnau Report: Mary is at the NAPE meeting in Washington, D.C. The Girls in Technology Day went extremely well and was oversubscribed. The community college did a great job and had a lot of vendors.

   c. EPSCor-Michele is in Washington, D.C. as the NAPE conference.

   d. PLTW – Bob sent a report; Core training for SIM for 7 participants will be held this summer at NHTI. Six certifications for NH schools are being processed right now. PLTW is going to a theme-based structure at a major savings. VEX Robotics is still being held with NHTI support. Many of the NH teams are going to the world championships in Anaheim, CA.
e.  EbD-we are in discussions regarding funding. There were 10 schools who submitted the funding for it.

5. Unfinished business(updates)
   a. PETAC logo- Karen’s marketing teacher is just returning today after a long medical leave so she will discuss this with him.
   b. Granite State K-12 Engineering Education Fund – we have not been able to put anything together yet other than the brochure to gain interest.
   c. Engineering Internships-there has been no progress.
   d. Web Site Maintenance – Kevin has already covered this and is making sure we are up to date.
   e. PETAC Membership- Covered above in the Shyne Report.

6. New Business-
   a. Val led a discussion on the resurgence of manufacturing discussions and programs in NH. There is a push to let school boards know that there is a real need for manufacturing in NH. A 2-minute video is being made for middle school students. May 8th- NH Ball Bearing in Peterborough is where the meeting will be held for guidance counselors, administrators, school boards, etc. It is unclear as to whether the Manufacturing Board is still meeting. Governor Hassan is open to the conversations about it even though manufacturing is not her background. She is also a big supporter of CTE and Community Colleges.
   b. Rep. Majors began a discussion on the Maine model for investment in education and business and he would like to find out more how we can move in this direction. Does Maine understand the K-12 influence and how can we tap into this? How does the Maine school system flow into the community college system? NHCTA is also going to be sending representatives to their (Maine) state summer conference as well as to VT. Nicole is doing outreach having her robotics team to talk to students. The grant they are writing to NH Charitable Trust to bring students to UNH College of Engineering as well as for the Engineeristas Camp. It is powerful to have students come back and volunteer for summer camp and robotics as they do at UNH and MST.

7. Announcements
   a. Next Meeting – Monday, June 3, 2013 at 8:30

8. Adjourn – Motion to adjourn-Val Zanchuk moved and Dan Caron seconded.
PETAC Meeting Minutes – December 2nd, 2013
NHDOE Walker Building

Attending: Val Zanchuk, Michele Munson, Mary Laturnau, Karen White, Dan Caron, Robert Arredondo, Kevin Shyne, Thelma Brown, Beth Doiron, Supt Corinne Cascadden

Absent: Justin Slattery, Rep Norm Majors, Lisa Danley, Nicole MacMillan, Dave DeWitt,

1. Welcome and Introductions
2. Motion for minutes- Val Zanchuk, seconded by Bob Arredondo with removal of Judy Houston as a resigned member as a member. All approved.
3. New Hampshire Charitable Foundation- Val Zanchuk – update on New Hampshire Charitable Foundation – every meeting held is a conversation about STEM activities but not all know all of the initiatives still. Val has given the name of Michele, Mary and Kevin as contacts. They are finding that CTE centers are much less utilized in NH as part of the STEM pipeline. They intend on reviewing these gaps. The results of this objective study will be available by the next meeting.
4. Evaluation of EdD Schools- Dan Caron – Dan’s high school in Bedford is a baccalaureate high school and they are looking at a certificate for the pre-engineering program. Dan took the PLTW self-assessment and wondered if this should be the case for other schools in NH who have similar programs. Should PETAC look at this to be able to certify NH schools? Could this give us more data on what the engineering programs looked like, especially if they have received money? Should there be a survey or part of an assessment of programs? Is this part of our “charge” and do others feel that monitoring is part of what we do? It is part of what has to be done for PLTW but not for EbD. PETAC has never pushed for it before. Should a report come back each year from everyone who has gotten pre-engineering funding? The legislature should know what has happened or they may discontinue the funding. Some states like Maryland require EbD courses for graduation. Is there a chance that money will be funneled to robotics instead? FIRST is pushing for this out of school experience. Dan will look at the PLTW self-assessment and see how it can be applied to the EbD program. We can also look at the CTE monitoring self-assessment. Dan will email the document out so that all can comment on it. Mary will cross match all who have received funds and those who are listed as currently running pre-engineering programs. This will also go to Dan by January 15th, so he can have the information prior to our Feb 2nd meeting.
5. Presentation of Berlin School District Pre-engineering – Supt. Cascadden passed out a booklet on the courses that Berlin has and explained what was happening in the classes that she went into. The programs are happening at the high school and middle school level. They have PLTW courses at the high school and EbD at the middle school. All students take these at the middle school level. There are 5 PLTW courses with approx 15 students in each class offered. Michele asked if MST had a middle school engineering and how the students are recruited if not. Karen explained how MST has been reaching down to the middle schools as part of the career curriculum and assessing their career interests and then bringing
them to MST for a career fair. Corinne also explained how the middle school also offers a blueprint reading for welding class since the welding program is so popular.

6. Reports –
   a. Shyne Report – Mary sent out the email asking for any changes to the survey and got no changes back. It will go out on survey monkey to be back by January 15th. Kevin is still working with 5 schools for EbD, Jaffrey Rindge, Chichester K-8, Bedford HS, Moultonborough Middle School and Nashua Middle Schools. Kevin feels that the application process should change so that PETAC sees the application, approves it and also asks for a yearly report be given on what is happening and what the enrollments look like. Kevin has made a few changes to the website to trim down the pages. EPSCoR has not yet scheduled a meeting for the legislature to support STEM. More is being done nationally to recruit students to come to their states for engineering jobs. The paperwork has gone out to change the positions of the members for the superintendent positions, but now we need the at-large positions to be filled. Dave DeWitt was not present to discuss the fundraiser for the EbD funding. There are 2 new courses being developed and we will not have the funding for these.
   b. EbD- Dan Caron presented on what is happening at Bedford HS and how it will become sustainable. The original program was a hybrid between the best of PLTW and experiences of the prior instructor. Dan changed it to EbD since that is what he was trained in and he wants to make it sustainable so it is not dependant on the instructor. Dan is trying to expand what is present and expand on manufacturing practices. He is trying to find more funding as they are trying to complete a fabrication lab. They have had various resources (Civil Air Patrol, Bedford Education Assn.) but they are asking for funding from the legislative funds. His Matching Funds grant Application has already been submitted to the DOE. Dan asked for a vote of approval from the board so he can move forward. All voted in favor of the matching funding request of $25,000 to implement Engineering by Design.
   c. Mary Laturnau – 285 girls registered for the Girls in Technology Day on March 19. There are 15 workshops lined up and 10-15 exhibitors will be in the gym that day as well. Mary is only a $1000 short this year so far. They are proposing to have it at 3 campuses next year. March 6th is slated for the UNH FIRST competition.
   d. PLTW – Bob Arredondo – NHTI - Jan 7th is the day for professional development for specific workshops for teachers. Jan 10th is the guidance counselors and administrators day. Changing may change for the summer but may not be 2 whole weeks. It may open up to non-PLTW teachers to fill up more classes. Bob needs to know now if there are any training needs so he can arrange the classes needed. He usually has around 5. Feb 22nd is the state VEX competition and the qualifier for the world
PETAC Meeting Minutes – December 2\textsuperscript{nd}, 2013

NHDOE Walker Building

competition. Running Start credit is a possibility for an after school robotics course but it is still being looked into. The assessment piece is still needed.

e. EPSCoR- there is a meeting on Dec 11\textsuperscript{th}. One of the questions hoping to be addressed to do essentially what Val’s group is doing on looking at the STEM initiatives. They would like to prepare a White Paper on their efforts. UNH tech camp is for 3 weeks in July with the last week being the “Engineeristas”. This is for grades 6, 7, 8. Tech Camp plus is for returning campers in grades 9 and 10. This will reach 120 students now.

Unfinished Business (updates)
   a. Resend Survey – Mary will do that.
   b. PETAC logo – Corinne presented what the students created after she gave them the purpose of the group. Corinne put out the hard copies. It was asked for students to change some of the graphics for option 14/15 combination to make sure they are not copyrighted. The colors are fine.
   c. Granite State K-12 Engineering Education Fund – Val - no movement since last time. He is hoping that the committee he sits on might give it traction.
   d. Engineering Internships – Thelma – she met with Pinkerton the other day on this and this enabled her to look more in her company. She checked with HR to see if pre-engineering courses might enable students to go into PSNH.
   e. New Business – Val asked if we talked about the outcome of manufacturing week. There was a pretty good response statewide. Val discussed the high level of interest at his company that spilled into other weeks. It was a first year so next year will be better and with no NECAPS, it will be easier to schedule. NH Tech Ed is now talking about doing a similar thing for school boards, politicians, media and parents to come into schools to see what is happening that they do not know about.
   f. Announcements – already covered
   g. Adjourn – the meeting was adjourned at 10:25AM

NEXT MEETING – February 2\textsuperscript{nd}, 2014 at the Walker Building