



Washington Industrial Technology



Education Association

Executive Board Meeting Minutes

May 8, 2010

Edmonds Community College

- I. Our meeting was called to order at 9:25 by president Lew Keliher

- II. Roll Call: Present were Past-President, Gene Fusch; President, Lew Keliher; President-Elect, Karl Ruff; Treasurer, Michael Dudley; Secretary, Mike Criner; Former Treasurer, Jim Nelson; Middle School Rep, Tony Judah; WTSA Advisor, Ross Short; former Past-President, Kevin Grayum; OSPI Rep and STEM Pathways Supervisor, Dennis Milliken; guests from Green Expo, Carla Dean and Dave Gering.

- III. Secretary's Report: Mike Criner handed out the minutes from the March 20 meeting and asked for approval. It was pointed out that in the minutes Kathleen Lopp's and Betty Klattenhoff's positions at OSPI had been reversed. It should have read, "...Kathleen Lopp as the Assistant Superintendent of Career and College Readiness and with Betty Klattenhoff as the Director of Career and Technical Education." The minutes were approved with the corrections.

- IV. Financial Report: Jim Nelson, as former treasurer, gave the treasurer's report:
 - Jim reported that he had just received the membership data from Tess. We have listed 278 members, some of which are (non-paying) past-presidents, some students. Based on this information the fears of membership being down was incorrect.
 - Tess had told Jim that we have not received a check for fall in-service because there are still two outstanding invoices. If we wish to write them off, she will send the check. Consensus was to write off the outstanding invoices.
 - Jim reported that if we use GoToMeeting.com for our board meetings we will save approximately \$300 per meeting in board expenses, at a cost of \$400 per year for an unlimited number of meetings. Consensus was to try it out.

- V. Conference Report: Gene Fusch reported that all the feedback on the conference was positive. With 166 attendees, all went well. The donation by Fluke of all the meters was much appreciated.

- VI. TSA Report: Ross Short reported that there were 260 students at this year's state conference at the Bellevue Hilton.
 - The addition of VEX Robotics was a big hit.
 - We had a lot of support from area industry and an Education Fair with 15 vendors and post-secondary education institutions.
 - Next year's conference will be again at the Bellevue Hilton March 24-26, and 2011 – 2012 will be March 22-24.
 - Ross reported that they did incur more expenses this year and asked that we grant them an additional \$3000. The board agreed to extend a one-time \$3000 grant to offset the added expenses.

- WTSA is preparing for the National Conference in Baltimore, June 28 –July 2. Attendance is expected to be down from previous years.
- OSPI was well represented at the state conference with OSPI Superintendent, Randy Dorn, Kathleen Lopp, Assistant Superintendent of Career and College Readiness, and Betty Klattenhoff, Director of Career and Technical Education.

VII. OSPI Report:

- Dennis Milliken reported that he is now the state coordinator for Real World Design Challenge, sponsored by NASA and Cessna. The organization issues a design challenge to schools who wish to participate. Washington had only one school that followed all the way through. All state winners travel to Washington DC for the national competition.
- Dennis believes this is something WITEA should promote. We could find volunteers to work with us in promoting this.
- Math graduation requirements have changed. The changes are attached.
- A recent study by one of the ESD's did not shed good light on the effectiveness of Applied Math. However, attendance at the Applied Mathematics Spring Conference was 250, implying a resurgence.
- The legislature is still funding middle school STEM programs. The good news is that the funds must go to the program, and indirect costs charged by districts are limited to 15%, just like traditional CTE courses
- House Bill 2621 passed. This establishes Lighthouse programs for STEM, i.e. three high schools and three middle schools to share best policies and spread the good word.
- \$97000 was retained to support CTSO's.
- \$300,000 of the High Demand funds has been earmarked for FIRST Robotics.
- 130 Middle school STEM programs were approved, and 40 more are expected by this fall.
- Senator McAuliffe, and others, would like to see a K-career STEM Education plan. OSPI, in collaboration with the STEM Center, will establish a K-career STEM plan. The HEC board, Workforce Training Council, and the Principal's Association will help. A meeting Wednesday determined that there would be joint oversight of STEM education by OSPI and the STEM Center relative to Race to the Top activities. This could give WITEA more influence in STEM organization.

VIII. Middle School Report: Tony Judah stated that he wasn't sure what his responsibilities are in his new position as Middle School Rep. A discussion ensued.

IX. College Report: Scott Calahan was absent due to family issues. However the college report was e-mailed to each of the board members.

X. WA-ACTE Report: Kevin Grayum reported that WA_ACTE is working on Summer Conference planning. The next meeting is planned for June 5.

XI. Old Business

- Newsletter Articles and Hardcopy: Kevin Grayum reported that more Tech Link articles is our best promotional tool. He also stated that hardcopy is also a great promotional tool. Discussion ensued on the cost-

effectiveness of a hardcopy. Consensus was to continue with electronic distribution. The next issue will be in Sept.

- By Laws: Mike Criner raised the issue of going through our by-laws and making any necessary corrections. Jim Nelson noted that we have been out of compliance on several issues. Our homework assignment is to go through the by-laws by ourselves. We will have a meeting and go through it together. We will then be prepared to present any changes to the membership at next Spring Conference.

XII. New Business -----Kevin Grayum/Dave Gering

1. Fall In-Service Green Expo Collaboration

- Exhibits are being gathered. One, explained by Dave Gering, is the anaerobic digester which produces methane gas from animal manure.
- Tony Judah reported that he and Lew Keliher plan to have an anaerobic digester by summer's end.
- Mike Dudley recommended LabVolt's Alternative Energy display.
- Dave also reported that there are grants from the aerospace industry, including the Aerospace Joint Apprenticeship Council (AJAC), to help defray costs of the Fall In-service.
- Kids are getting real aerospace jobs through AJAC.
- Marilyn Young-Skogland will be touring the state looking at our capacity to offer AJAC's program.
- There will be a workshop on Green Education.
- One goal; of the Fall In-service is to establish a link between WITEA and the industrial community of the state to improve education.
- Carla stated that another goal is to increase WITEA membership.
- Price Structure/membership: Pre-registration will be on-line. Cost for WITEA non-members will be \$100, with \$25 going for membership in WITEA. Registration for WITEA members will be \$75. The registration price includes a coffee reception and lunch.
- The first day of the in-service will be Thursday, Oct. 7, on the South Seattle Community College Campus. Gene Fusch suggested that Franciene may be willing to sit at the registration table on Thursday. The second day will be held at the Manufacturing Industrial Council (MIC) in Duwamish. The Duwamish site cannot hold as many as South Seattle Community College, so a discount may be given to those who only wish to attend the Thursday session.
- Kevin suggested having TSA Officers act as guides. In return we could make a donation to TSA.
- Publicity: Kevin reported that publicity has begun. Wayne Gilman, Program Supervisor for Agriculture Education and Science, has agreed to notify all Ag teachers in the state. Dennis recommended promoting the Green Expo at Summer Conference.

2. Discussion ensued on next year's meeting dates. Consensus is to hold our Sept. 11 meeting at the MIC Duwamish site. Lew mentioned that any reports to be used in a meeting should be electronically distributed at least one week before the meeting.

XIII. The meeting adjourned at 12:20.

Third Credit of Math FAQ February 2010

1. What is the new three-credit math rule?

At the instigation of the legislature, the SBE amended the graduation requirements rule ([WAC 180-51-066](#)) to add a third credit of math and to prescribe the content of those credits. The rule was adopted in July 2008 and takes effect for the graduating Class of 2013.

2. Are there specific math credits students have to earn for the first two credits?

Students have to earn 1 credit in algebra 1/integrated math I, and a second credit in geometry/integrated math II, or earn credits in the relevant career and technical education (CTE)-equivalent courses. Students must pass end-of-course assessments for algebra 1/integrated math I and geometry/integrated math II.

3. What courses may students take for the third math credit?

Students may take algebra 2, integrated math III, or a rigorous, high school level math course that meets the student's education and career goals identified in the student's high school and beyond plan. Students must earn credit in algebra 1/integrated math I and geometry/integrated mathematics II or in the relevant career and technical education (CTE)-equivalent courses before taking the third credit.

4. If students want to take a course *other than* algebra 2 or integrated math III for their third math credit, what do they have to do?

- Choose a course that is based on a career-oriented program of study identified in their high school and beyond plan
- Meet with a high school representative and their parent/guardian to discuss their goals and the admission requirements of two and four-year colleges
- Sign a form, along with the high school representative and parent/guardian, to acknowledge that: 1) the meeting was held, 2) the required information was discussed, and 3) all parties agree that the course is more appropriate for the student's education and career goals.

5. How is the meeting and signature process intended to work?

The Board intends for the meeting and signature process to be an individualized conversation involving the three key interested parties: the student, parent/guardian, and high school representative.

6. Will any course work for the third credit of math?

The State Board of Education intends for the third credit to be a rigorous, high school level math course that will serve the student's education and career goals. Courses in which the majority of the math is at a K-8 level would not qualify for the third credit. Traditional math examples may include, but are not limited to: statistics, discrete math, linear algebra and mathematical modeling.

7. Would career and technical education (CTE) mathematics courses satisfy the third credit of mathematics?

Yes. CTE courses with a majority of high school level math would satisfy the third credit of mathematics. CTE math examples might include, but are not limited to OSPI-approved frameworks in: accounting, robotics, engineering design I and II, drafting for civil and architectural engineering, construction math, applied mathematics, business math, financial literacy, and statistics. (Frameworks will be available in summer 2010).

8. Can physics count as the third credit of math?

If the majority of the course is high school level math, the title of the class is immaterial. Districts will need to make these determinations locally by clearly identifying the standards and competencies the course represents. Students will need to earn the minimum state-required credits, as well as any local credits, to satisfy graduation requirements. In other words, if physics counts as the third math credit, the student will still need, under current rules, to earn separately the state-required 2 credits of science.

9. Can a Learning Assistance Program (LAP) class, in conjunction with algebra, work for the third credit?

No. Students must earn credit in algebra 1/integrated math I and geometry/integrated math II or in the relevant career and technical education (CTE)-equivalent courses before pursuing the third credit of math. The LAP class may count as an elective credit, but it cannot satisfy the third credit of math.

10. Could a student take algebra 1 for two years, counting the first credit as algebra I and the second year as a third credit?

No. Students must earn credit in algebra 1/integrated math I and geometry/integrated math II) or in the relevant career and technical education (CTE)-equivalent courses before pursuing the third credit of math.

11. Can students take algebra 1 for two periods and count it as the first and third credit of math?

No. Students must earn credit in algebra 1/integrated math I and geometry/integrated math II) or in the relevant career and technical education (CTE)-equivalent courses before pursuing the third credit of math.

12. We plan to offer a math class designed for those students who haven't passed one or more of the end-of-course assessments, but have earned the first two credits of math in the designated classes. Could this class count as the third credit of math?

This type of class may count as the third credit of math if the following conditions are met:

- a) students earned credit in algebra 1/integrated math I and geometry/integrated math II), or in the relevant career and technical education (CTE)-equivalent courses, even though they did not pass one or both of the end-of-course assessments, and
- b) the math class is rigorous, high school level math that helps the students meet his or her education and career goals, and
- c) the math class is not the same as the original algebra 1/integrated math I and/or geometry/integrated II classes.