



**St. Petersburg College
Joint Meeting
Clearwater Campus
Department of Engineering Technology and Building Arts
Wednesday, May 26, 2010**

Summary

Members Present: Roger Harvey, Clint Mells, David Reese, Ken Conforti, Don Houdek, Joe DiPasqua, Bill Venz, and Brad Jenkins.

Members Excused: Mark Snyder, Greg Seay, Steve Askew, Bill Erdmann, Lou Grilli, Matt Smith, Randy Swanson, German Jaramillo, Marcus Heiler, Ed Homan, John DeBella, Keith Matthews, Matt Smith, Tina Brudnicki, Rodney Fischer, Johnny Moore, Ned Stacy, Frank Cain, Bill Erdmann, and Lisa Maciolek.

Guest: Gary W. Graham, Outreach Coordinator,
Academic & Student Affairs, SPC

Special Guest: Stan Vittetoe, Provost, Clearwater Campus and Vice President
of Workforce & Continuing Education, St. Petersburg College.

Brad Jenkins welcomed the advisory members to the spring meeting and provided the enrollment update from 2008-09 to this 2009-10 year, in which the enrollment is up 4.8% in Engineering Technology and 15.5% in Building Arts. The reason for the increase in both areas were due to the new energy related courses in the Building Arts and the new CAD and technology courses in Engineering Technology

The committee received the information on the May and December 2009-10 graduates that included 29 students receiving AS Degrees in Engineering Technology and Building Arts and 81 receiving college certificates. This list of the graduate data and enrollment will be sent to all members.

The committee received an update on the action items from the January 21, 2010 meeting and the only item that is still being worked on is the update for the ET and BA department web pages. The college is going to a common format and when that is decided later on this summer the web page will be updated. The new courses offered from committee and curriculum action that the advisory committee approved included the first offering, this spring, of ARC 2180C, Digital Design and Fabrication, using digital media and 3-D solid modeling, that had an enrollment of 20 students and the new EGS 1001, Introduction to Engineering, offered this summer session that had an enrollment of 10 pre-engineering students.

The advisory committee's activity for this meeting was to review the Workforce Florida list of Industry Certifications, and determine what related industry certifications might fit in the drafting, construction, or engineering technology areas. The committee was provided with the departments AS degree programs and after some brief discussion concerning the list, each individual committee member identified those certifications they thought would relate to academic programs. The results will be sent to the Florida Advanced Technological Education (FLATE) Center to compile the results with other colleges participating in this industry review process.

The committee approved the new curriculum proposals for three new courses. Brad provided course descriptions related to the SolidWorks Simulation Design Analysis, the Advanced Architectural Revit, and the Rapid Prototyping and Model Design courses. There was some brief discussion on each proposal and the committee gave the approval to move ahead in the curriculum process. These courses will be fully developed and sent to the college's Curriculum and Instruction committee this summer for approval in order to offer these starting in the August session. Bill Venz made a suggestion that the department look into the possibility of offering a summer camp in Solidworks and Rapid Prototyping for high school students. This may provide some real interest in this field for these students.

In exploring the advanced technology opportunities for the department and college, Brad mentioned the new alternative energy specialties and courses that are now being offered at several community colleges around the state. Some additional discussion centered around the fuel cell technology and the solar energy initiatives. The curriculum frameworks for this alternative energy have now been developed and on file with the Department of Education. The committee thought this was an area to be involved and encouraged the department to further investigate any curriculum or courses to be offered.

In the discussion concerning Nanotechnology, Stan Vittetoe mentioned there are companies that may want to work with SPC in this field of technology. He said we are not seeing any advertisement for nanotechnologists, but nanotechnology products and research are being incorporated and used in the development of nano-material in the making of prosthetics. Draper Laboratories and SRI are also using advanced techniques in this field using nanotechnology and Stan suggested that some of this technology be included in the Engineering Technology curriculum. Ken Conforti also mentioned that he is seeing nanotechnology used in the manufacture of interconnecting cables for various assemblies. After additional discussion a preliminary survey will be developed to see what interest and involvement there might be curriculum and industry involvement. Brad also mentioned that this initiative may provide some grant opportunities with NSF and also may lead into some research applications with different companies.

The committee was also provided an up to date curriculum package on all the department's degree programs. Brad also said the name of the building will change to Technology Center (TC), with the signage to read Engineering Technology, Building Arts, Architecture, and CADD. These names will capture the technology being offered in the building. This change should take place this summer.

The action items included:

1. The committee recommended the three new courses be developed as curriculum proposals and proceed for through the approval process.
2. Brad Jenkins will continue to receive input to update the department webpage.

3. Brad Jenkins will send the list of the graduate data and enrollment to all advisory members, in order to provide that information to the members that did not attend this meeting.
4. A survey questionnaire will be developed for both the alternative energy and nanotechnology areas and sent to the committee for updating and additional input.
5. The committee members were asked to email additional topics on nanotechnology and what they think would be required for a technician to have to work in emerging companies using nanotechnology. Those comments should be sent to jenkinsb@spcollege.edu.

Gary Graham will be sending a link to an evaluation survey that the advisory members can use to evaluate the Engineering Technology & Building Arts Advisory meetings that were held this past year.

The meeting was adjourned at 6:55 p.m.

The next meeting will be Thursday, November 10, 2010. The agenda will be sent out prior to the meeting.

Respectfully submitted,

Bradley E. Jenkins
Secretary