

Present: Mike Butts, Brian DeBiase, Jody Ware, Jarod Graffius, Dave Ullom, Vanessa Haymond, Chris Toothman, Dr. Jerry Bacza, Nancy Lawler
Guests: Provost Leslie Lovett, Dana Gribbon
Acting Secretary: Beverly Jones

Jerry Bacza introduced and welcomed members of both the Industrial Advisory Committee and the Graphics Industrial Advisory Committee. He gave a report on the ongoing process of separating PCTC and FSU.

- ~ The databases will be separated as well as student services.
- ~ Bids for the ATC will be out May 1 for Technology Park with several BAT programs included.
- ~ MTech in Morgantown is expanding for fall 2013 and will include Business classes.
- ~ Each program is up for 5-year review at the May Board of Governors meeting.
- ~ Drafting/Design Engineering Technology and Graphics Technology were re-accredited by ATMAE. Three faculty went to Nashville to make a presentation.

ATMAE: Association of Technology Management Applied Engineering.

Chris Toothman reviewed minutes from April 23, 2012. Since then, the Blueprint Class and Mapping Class have been implemented. The Blueprint class was team-taught by Chris Toothman and Jerry Bacza for eight weeks. The class went very well with students from a variety of programs. There was positive feedback from the students and it may be for a full semester next year. The Mapping Class was offered for the first time. There was a review of terminology, mapping and surveying, including purchase of GPSs and surveyed Mt. Chateau. He hopes to also get to the Civil 3D package at the end.

Jerry noted that Thelma Hutchins of the FSU library donated several maps including detailed topographical sheets from around the world. For the Blueprint reading class, Chris ordered a book that has a full set of design documents, including a commercial greenhouse layout. There was no time to cover electronic blueprint reading.

GEN ED CHANGES: The move to Veterans Square was discussed. Pierpont students are currently going through Gen Ed on the FSU side. This needs to be changed to the Pierpont Gen Ed credits. We are considering changing the Physics as students seem to struggle with this class. The ATMAE requirements will be reviewed. Dr. Martina Bachlechner teaches Technical Physics. We will invite her to the next IAC meeting.

Pre-requisites were discussed for Pierpont and FSU programs, including consequences of the separation by the state Legislature.

Chris and Jerry discussed students who were recently hired by Thrasher Engineering and Woodchucks. He stated that classes in AutoCAD may run at Mtech as there is a need for students at WVU engineering.

Jerry referred to the meeting with the WVU freshmen engineering dean and the 2+3 relationship with mechanical and industrial engineering at WVU. Two students have gone through the program. There will be more meetings after the semester to formalize more. Then, students who enter in the

Drafting/Design program at Pierpont can transfer to WVU and complete. They will need theoretical-based calculus and Calculus-based Physics. This will be the WVU tract for those students. In our CAD program we do Inventor and Revit which WVU embraces. It would be great for a student to have an associate degree and a mechanical/industrial degree to be highly marketable.

At MTech in the fall, there will be some Pierpont classes in the daytime and several in the evening. Also planned are some CAD classes there and this will help get the market for WVU. This may be for a degree, training, or just for a background. There seems to be a big need for these classes.

Jerry noted that as a dean, several institutions around the state value the community college:

- at WV Wesleyan, we have a 2+2 agreement on Business programs
 - at WVUP, we have a 2+2 agreement in Information Systems program
 - at WVU, Mechanical. Jerry and Vijay will meet with WVU next week with the Fine Arts Dean as they want the same Articulation Agreement as the 2-year Graphics here.
- Vijay is a computer engineer, a software developer, a multi-media specialist: All the things they do with animation is absolutely wonderful.

Chris noted that Vijay is wanting to get into the animation side of Graphics. His students are designing different characters and we're making them on the prototype from STL files. We are meshing together in this way. After the move to Veteran's Square, Graphics and Drafting rooms will be closer together and will be working more together. Graphics and Engineering Graphics will be together more. AutoCAD has a nice animation package that Chris wants to work with.

Graphics and Drafting have many possibilities to grow together once they are moved to the new downtown Fairmont location in a year from now. The location was toured at the March School meeting. Chris suggested taking the Advisory Committee on a tour of the upcoming location during the next advisory meeting.

Jerry noted that there is about 55,000 square feet to the building. The idea of being 'downtown' can be good as it does need some revitalization. He also noted that the new State Office Complex is coming along as well near the proximity to the Connector to I-79. The new Lan Management program will be close to the courthouse which is a benefit. Culinary Arts may benefit from the old CJ Maggie's restaurant. There can be many benefits of being in the 'downtown' location. There will also be a shuttle bus.

Jerry noted that Mechatronics will need more space to grow.

The next IAC meeting will be planned for Veteran's Square.

Chris sent the data sheet around to members asking members to note how many years they have served on the IAC. Bylaws were approved last year and members will serve 4-year staggered terms. They can be re-elected.

Jerry noted that Gary Schultz was not able to attend today due to health problems.

Jerry reviewed content courses. These include:

- Fundamentals of AutoCAD
- Architectural Drafting was reduced to three hours to meet degree requirements.
- Chris uses AutoCAD and is into Green Design. He is looking at the concepts of doing Residential

Building with green materials. This is good.

- The Descriptive Geometry course has been changed over to Inventor Sheet Metal Fabrication. ATMAE does not require Descriptive Geometry although it is still important. Descriptive Geometry comes up in the Inventor class.
- Solid Modeling is also taught in the fall semester. Inventor is used as well as the prototyper.

Chris noted the Technical Drafting course is taught in the spring semester. Basic AutoCAD is used. PDF files are used with overlays and then Inventor is used. Kazoos were made this past year. They had to draw and design on a prototype. Their last project was a green project. The three prototypers have been a big asset. Students spend a lot of time working in the lab.

In the Mapping class, Chris noted that it is actually AutoCAD doing Civil type work. Jerry teaches an Architectural Design Class that is Revit, where students do a standard hunting and fishing cabin on site, for their final project. They do either their parents' or grandparents' home. Students compare Revit with the digital picture. Vijay then picks up with animation and 3D motion but this needs more power. They would like to add more of these type classes and remove some others.

In Jerry's Capstone courses, he has asked senior students what should be added. Jerry wants to add Revit MVP – which includes the electrical, mechanical and plumbing. The ventilation and ductwork need to be included also. The Revit MVP may need to be a separate course. Designs need to include the structural side.

Jody Ware noted he works with 3D to the sales side when working with customers. He noted the importance of showing customers views in AutoCAD and the limitations of Power Point. Using 3D and prototype models is very helpful. Maker-Bot is very helpful technology and are often backordered.

Jerry asked if anyone had used the new Power Point called Prezi.

PROGRAM ASSESSMENT: Jerry discussed program assessment and ways to evaluate, including two certification exams for the program. One is from ATMAE for the CEG, a certified engineering graphics specialist. This test is 160 questions on a computer for two hours, no CAD included and includes all engineering drawing. The second exam is the AutoCAD certified user exam by Certiport. This exam was a very intense 30 question test. It took 50 minutes to complete. Our program is the combination of both these exams. Input was given on the two exams. Different types of tests were discussed. Employers still give a test before hiring even with a certificate. Portfolios are still reviewed. AutoDesk is important.

After more discussion, both groups, Graphics and Drafting, met back together for a wrap-up.

Meeting was adjourned at 11 a.m.