

Spring 2016 Construction Management Technology Advisory Committee Meeting Minutes

Chairperson: Mr. Robert Benda

Meeting date: April 8, 2016

Meeting time: 11:30 a.m.

Meeting place: Fusion Auditorium

Recorder: Karmin Ramos

Previous meeting: November 13, 2015

Attendees: Name and Title

Members present: 14

Guests: 6

- **Robert Benda**, CEO, Westwood Contractors
- **Jason Becker**, Superintendent, Linbeck
- **Dr. Peter Jordan**, President TCCSouth
- **Carl Roegner**, Retired / ACCE Member
- **Alan Wilson**, President, Brass Key
- **Dr. Steven Wilson**, VPAA, TCC
- **Paula Hunter-Perkins**, VP-HR, DR Horton
- **Ben Muro**, VP-HR, ACME Brick
- **Mr. Thomas Ford**, Interim Dean
- **Ben Torres**, M. Baker Intl.
- **James Norwine**, Project Engineer, EMJ
- **Mr. Jeff Rector**, Department Chair
- **Randy Graham**, TCC Construction Services
- **James Howard**, Architect, JWPH Architecture
- **Dr. Orlando Bagcal**, Tarrant County College
- **Emmanuel Nieto**, City of Fort Worth Inspector
- **Tiffany Leever**, Treasurer, ACMS
- **Nick Spencer**, Project Manager, DOTC
- **Karmin Ramos**, Secretary, ACMS
- **Mike Zamora**, Consultant, CMAACM

Meeting Minutes

Agenda Item	Action Discussion Information	Responsibility	ACTION REQUIRED
Call to Order:	Mr. Benda called the meeting to order at 12:00 p.m.	Mr. Bob Benda	
Past Minutes	Minutes for Fall Meeting 2015 were reviewed and approved.	Mr. Bob Benda Committee Members	
<p>Meeting Discussions:</p> <p>Updates about the Construction Management Program</p> <p>Enrollment</p> <p>Employment and Graduates</p>	<p>Mr. Benda thank the committee members and briefly remind them of their responsibility as advisory council to the construction management program. He then asked Dr. Bagcal to provide updates of the program.</p> <p>Dr. Bagcal thanked the committee for sacrificing their time and effort in attending the meeting. He then proceeded by informing the committee members about the 56% increase in enrollment from Fall 2014 to Fall 2015.</p> <p>He announced to the committee that due to the continued increase in enrollment in the program, it prompted the administration to hire one full time permanent faculty position beginning Fall 2015. He mentioned that the position was awarded to the long time adjunct faculty, Mr. James Howard.</p> <p>He informed members about the number of graduates. From 2014 to 2015 there has been a 40% increase in completers. This year about 40 students are graduating</p>	<p>Mr. Bob Benda</p> <p>Dr. Orlando Bagcal</p>	

<p>Scholarship</p>	<p>with certificates and degrees breaking the record.</p> <p>He announced that there is a possibility of introducing another AAS Degree in Surveying Technology that is closely related to construction management that will be part of the Building Technology Department.</p> <p>He mentioned that the new certificate in Construction Business Entrepreneur has been approved and will become effective and available on Fall 2016 semester.</p> <p>He updated the committee about student employment:</p> <ol style="list-style-type: none"> 1. West Wood Contractors accepted one intern for the spring 2016 semester. 2. Linbeck offered 2 internships to 2 graduating students in the spring 2016 semester and 1 of the students was offered an internship position during summer 2016. 3. Other students in the practicum class are currently employed in construction related jobs. 4. He mentioned that TCC also has a mentorship program to guide and provide students experience. One student went into this opportunity this spring 2016. 5. From 2013 to 2015, the average employment rate of the program is 93%. 6. He stated that EMJ Construction agreed to 	<p>Ms. Paula Hunter-Perkins</p> <p>Dr. Orlando Bagcal</p>	<p>Follow Up</p> <p>On-going</p>
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<p>National Housing Endowment – HELP Grant</p>	<p>In January, Dr. Bagcal took 6 students with him to the annual IBS – NAHB competition at the Las Vegas Convention Center. The team placed 6th overall. Trenton Crouch won Outstanding Student Award. He shared to the committee of how much he is proud of his students’ initiatives, efforts and achievements.</p>	<p>Dr. Orlando Bagcal</p>	
<p>Community Services</p>	<p>Dr. Bagcal thanked Mr. Torres (M Baker) and Dr. Burleson (Linbeck) for their financial contribution to the competition.</p>		
<p>Program Upcoming Events</p>	<p>Dr. Bagcal informed the committee that next year’s competition will be in Florida and will be needing additional funds to support the students.</p>		
<p>Advisory Committee Commitment for next 2 years</p>	<p>Dr. Bagcal shared to the committee of his application for the national grant from the NHE – HELP. Last year his application was a finalist for the grant.</p>		
<p>Classes Offered</p>	<p>He updated the members about Community Services: Last week about 18 students participated in the Cowtown Brush Up event. About 3 to 4 hours were spent painting the exterior of the house.</p>	<p>Dr. Orlando Bagcal</p>	
<p>Classes Offered</p>	<p>Dr. Bagcal announced that 2 upcoming events the program is having in April, the job fair and graduation dinner.</p>		
<p>Classes Offered</p>	<p>He asked the committee members and asked their companies to participate in the job fair. He said that he will be sending out an</p>		

	<p>Mr. Roegner said that he will follow up with ACCE.</p> <p>Mr. Roegner also stated that the advisory members should help out disseminating information about the students' monthly seminar meetings and asked how the meetings are set up.</p> <p>Dr. Bagcal responded by stating he gives a list of the advisory members information to the students officers. The officers will contact companies or members of the advisory committee and invited them and arranged dates to be a guest speaker. He mentioned that he will provide information to the committee by sending emails informing them of the seminars.</p> <p>Mr. Benda reiterated the request of Mr. Roegner regarding the information about the students' seminar series.</p>		
<p>Discussion Questions:</p> <p>What are the emerging construction management skills/traits that entry level employees needs that we should consider as part of our course of instruction?</p> <p>Skills</p>	<p>Mr. Benda led the members to page 30 in the packet regarding the discussion questions.</p> <p>Mr. Benda asked Mr. Becker about their company's hiring process for graduates and skills they are looking for. He also asked information about their Lean practices at Linbeck.</p> <p>Mr. Becker responded by stating that skills that they are looking for applicants are: familiar with RFIs, contract documents, technology and submittal process are some of the skills.</p>	<p>Mr. Bob Benda</p> <p>Mr. Jason Becker</p> <p>Ms. Tiffany Leever</p>	<p>On Going</p>

<p>Technology and Processes</p>	<p>Ms. Leever commented that those processes are integrated in the program and students do have a general knowledge about those skills as they are being discussed in lectures.</p> <p>Mr. Zamora mentioned that he integrates in his lectures about how to prepare RFIs, what response to look for and what to look at first when you are looking at a set of drawings as well as leading the students into critical thinking.</p> <p>Mr. Becker also mentioned communication is important. Also, Lean construction is becoming a common term and practice in the industry especially for bigger companies. Their company is a General Contractors so being familiar with all aspects of the construction are important.</p> <p>Mr. Zamora asked Mr. Becker to clarify about Lean construction, Integrated Project Delivery (IPD) and how these important in the construction/field site.</p> <p>Mr. Becker said that these are necessary for both owner and GC as it provide a more efficient planning system and thus eliminating waste in time, efforts and resources.</p> <p>Mr. Benda asked if the curriculum has an element that exposes the students to the Last Planner System (LPS).</p>	<p>Mr. Mike Zamora</p> <p>Mr. Jason Becker</p> <p>Mr. Mike Zamora</p> <p>Mr. Jason Becker</p> <p>Mr. Bob Benda</p> <p>Mr. Mike Zamora</p> <p>Mr. Bob Benda</p> <p>Mr. Mike Zamora</p>	<p>Follow up Seminar Needed</p> <p>Seminar Required</p>
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	<p>Mr. Zamora said not yet but he has introduced IPD in his construction management class.</p> <p>Mr. Benda commented that it is critical for the students to be aware of the current technologies and processes such as the Last Planner System, IPD and Lean Construction in order to be prepared in the real world.</p> <p>Mr. Zamora asked on how the committee can help educate and make the students aware of these immersing processes and technology considering the limited resources the program has.</p> <p>Mr. Becker said that those processes are very visual. On the job site, he uses boards so everyone can see. Preparing RFIs and submittals can be prepared using various software and it varies on every company.</p> <p>Mr. Norwine commented that his company uses BIM. Each company does a visual 3D rendering of their work and they merge it together which helps them to maximize their resources.</p> <p>Mr. Benda asked what the level of exposure of the students about BIM.</p> <p>Dr. Bagcal responded that currently the program teaches software such as Primavera, MS Project, Win Estimator, Excel, and AutoCAD and hopefully integrate BIM in the computer aided scheduling class in the future.</p>	<p>Mr. Jason Becker</p> <p>Mr. James Norwine</p> <p>Mr. Bob Benda</p> <p>Dr. Orlando Bagcal</p> <p>Mr. James Howard</p> <p>Dr. Orlando Bagcal</p> <p>Mr. Bob Benda</p>	<p>Follow Up</p>
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<p>What recent technological developments in the profession do you feel that you perceive needs our attention? How might they be integrated into our program?</p>	<p>Mr. Howard commented that students can take Revit from the Architecture program although the course is not required in the construction management degree.</p> <p>Dr. Bagcal mentioned that he is looking forward to integrate BIM in one of the advance classes. Offering a stand-alone class for BIM would be difficult since the state mandated a limited total credit hours for AAS degree.</p> <p>Mr. Benda commented that there are certain imperatives that have to be considered and taken into account such as the state mandated credits and the accreditation requirements.</p> <p>Mr. Benda reiterated that BIM, Lean, IPD and Last Planner System are becoming an integral elements in the work environment today and some exposure for the students is going to be important.</p> <p>Mr. Howard commented that they are going to integrate some of the processes into the courses so the students can be aware of and gain a general knowledge of these skills.</p> <p>Mr. Benda mentioned that exposure to the concepts, capabilities and understanding of the power of the tools will help save valuable training time in every company the students will work for.</p> <p>Mr. Norwine commented that it is not necessarily for the students to learn completely and be expert</p>	<p>Mr. James Howard</p> <p>Mr. Bob Benda</p> <p>Mr. James Norwine</p> <p>Mr. Bob Benda</p> <p>Mr. James Norwine</p> <p>Ms. Tiffany Leever</p> <p>Mr. Bob Benda</p>	<p>Follow Up/ On Going</p>
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	<p>about these technologies and processes but to have the basic knowledge on how these tools are being used.</p> <p>Mr. Benda stated that if students are part of the efficiencies of preplanning they can add the greatest value for the company.</p> <p>Mr. Benda mentioned that the members had already touched base on the technologies and everyday tools that are important. He asked the committee if there are any areas in specialization that need to be implemented in the program.</p> <p>Mr. Norwine stated about monitoring the project. The importance of knowing how to check the work progress and how to evaluate possible problems and how they can be eliminated and corrected.</p> <p>Ms. Leever stated that the faculty stresses in their lectures about the importance of doing the job the right way and how their decision can impact the overall project.</p> <p>Mr. Benda stated that since the program integrates the concepts of Ethics across the curriculum, it could be a good practice for students to better manage the project control and analysis.</p> <p>Mr. Spencer suggested incorporating checklist of skills and knowledge the students should acquire in the program.</p>	<p>Mr. Nicholas Spencer</p> <p>Mr. Emmanuel Nieto</p> <p>Mr. Mike Zamora</p> <p>Mr. Bob Benda</p> <p>Mr. James Howard</p> <p>Mr. Ben Torres</p> <p>Mr. Jason Becker</p> <p>Mr. Bob Benda</p> <p>Mr. Ben Torres</p>	<p>Follow Up</p> <p>On Going</p> <p>Follow Up</p>
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<p>What is an ideal partnership between construction companies and the construction management program and how we can strengthen further? How can we best serve the industry through our facilities, staff, students, and graduates?</p>	<p>Mr. Nieto asked if the program exposes students to traffic control plans.</p> <p>Mr. Zamora answered that the Codes and Inspection class covers a small portion of it. Mr. Benda also suggested covering ADA.</p> <p>Mr. Howard commented that the topic of ADA codes are enforced by different agencies/cities so they make sure the students are aware of. ADA is also integrated in the blueprint reading class and codes class.</p> <p>Mr. Torres suggested the students need to be prepared to use electronic tools that integrate various aspect of the project.</p> <p>Mr. Becker suggested that the committee should involve the AGC or TEXO and invite them to become members of the Advisory Committee. AGC members can be invited to be speakers and talk about various technologies.</p> <p>Mr. Benda commented that AGC provide an institutional or complementary membership that might be worth having someone on the faculty to be in the communication stream and be part of AGC/TEXO.</p> <p>Mr. Torres also stated a lot of the trades are becoming more integrated and it is important that these organization can share the immersing skills. He also suggested that students should seek out construction procurement</p>	<p>Mr. Carl Roegner</p> <p>Mr. Alan Wilson</p> <p>Mr. Bob Benda</p> <p>Mr. Ben Torres</p> <p>Mr. James Norwine</p> <p>Mr. James Howard</p> <p>Mr. Bob Benda</p> <p>Mr. Ben Torres</p>	<p>Follow Up</p> <p>Follow Up</p>
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	<p>news and see what large projects are out there to better educate the various types of construction.</p> <p>Mr. Roegner agrees with students being prepared to use technology.</p> <p>Mr. Wilson suggested social media for small business owners.</p> <p>Mr. Benda mentioned the Construction Business Entrepreneur Certificate offers a class Principles of Selling which offers a marketing plan.</p> <p>Mr. Benda asked the members if there are any opportunities such as field trips that can be instrumental to the program.</p> <p>Mr. Torres suggested to bring students as field trip to companies where BIM is extensively used.</p> <p>Mr. Norwine suggested to give seminar to show the use of BIM software he uses in his work and will explain the practical value of it.</p> <p>Mr. Howard emphasized the importance of communication in every project.</p> <p>Mr. Benda offered having his attorney come in talk about the implications of electronic communication.</p> <p>Mr. Torres commented contract law is evolving and one thing the students should look into to avoid problems during construction.</p>		
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Adjournment:	Mr. Bob asked members to fill out assessment form and update form. The meeting was adjourned at 1:00 p.m.	Mr. Bob Benda	
Committee Chair SIGNATURE:	DATE: 10/28/16	NEXT MEETING:	