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BIM (Building Information Modeling) BYU-Idaho

One exciting direction that the building industry is moving rapidly towards is in Building Information Modeling (BIM). This is a concept that begins at the conception and design phase of a building and extends through construction and the service life of the building. Greenwold, 2005 described BIM by saying "It means that rather than using a computer to help produce a series of drawings and schedules that together describe a building; you use a computer to produce a single unified representation of the building so complete that it can generate all necessary documentation". This would include traditional 2 dimensional building plans and rendering, 3 dimensional representations and animations, estimating and scheduling data, and finally service life repair and replacement data.

We began a few years ago in the Department to explore BIM and two years ago began offering the Arch 280 Building Information Modeling Class. Like the industry, we have been moving forward excited to see where this new technology will take us. Recently we have had a number of employers' contact us looking for graduates with specific skills in Building Information Modeling and we are adjusting and adapting some of our classes to try and meet the skills that the industry is seeking.

In the Arch 280 classes we have been using the AutoDesk software Revit to create building models. We have been very pleased with what has been accomplished in the class so far and find that the students enjoy learning and using Revit, but we have come to realize that there is just too much involved in BIM than we can cover in a single class. Beginning in the fall of 2008 we will make some changes by shifting some of the Revit instruction into the Arch 210

Advanced CADD class. In Arch 210 we will teach 2 dimensional building plans, renderings, 3 dimensional representation, and animations using Revit and the focus of the Arch 280 class will be on estimating and scheduling of the building model. In addition, we are exploring the possibility of introducing the students to other BIM software such as Navis Works Jetstream. We feel that these changes will help our students become better prepared to meet the needs of the industry.

It is exciting to be part of such a dynamic and changing industry. At times it really keeps us on our toes trying to keep up with the fast pace of the change, but it is also wonderfully rewarding to be part of.

Brian Blaylock
BYUI Faculty

Amazing Transformation

As many of you have seen, the BYU-Idaho campus is experiencing an amazing transformation. Since the announcement of becoming a four year university the following construction projects have been completed:

1. Spori Replacement Building
2. The new Hinckley Building
3. The new Student Health and Counseling Center
4. An addition to the Austin Building
5. An addition to the Benson Building
6. A complete remodel of the Clarke Building
7. A complete remodel of the Chemistry Labs in the Romney Building
8. A new Campus Sub-Station
9. The University Village Family Housing
10. The Thomas E. Ricks Building
11. New Activity Fields
12. Multiple landscaping upgrades and renovations
13. Snow Building Additions

This has added approximately ½ million square feet of new space, all of this in approximately five years.

Well, now you can see that we are currently underway with the Manwaring Remodel and Addition, as well as the new Auditorium. These two projects comprise of approximately another ½ million square feet of new space, but we have been asked to accomplish this in about half the time we did the previous projects. This

does not come without it's challenges, but it also provides wonderful opportunities to improve the campus for the benefit of the students. The Manwaring will increase in size by about 140,000 square feet. This will be done in three phases. Phase one is the northeast addition. This will house the new University Store on the lower level and provide a wonderful gather space on the upper level. Phase two will comprise of almost a complete remodel of the existing building. Phase three will be the final addition on the northwest. We are phasing this project so that we can keep Food Services and the Bookstore operational during the entire project. This poses great challenges, but the students come first.

The Auditorium will be approximately 360,000 square foot with a 15,000 seat auditorium, along with a multi-use space that will be 10 basket ball courts, tennis courts, volleyball courts and also function as indoor soccer. It will be used for humanitarian aid as well as other activities. It will be a great addition to the campus and serve the students in many ways.

These two projects will be completed by the end of 2009. Please come and see the progress of campus construction and watch the campus continue in its evolution.

Charles Andersen
BYUI Physical Facilities Director

The BYUI Experience

In my opinion the best part about the Department is the opportunities we are provided with for gaining real world work experience. As part of the four year Construction Management Degree, students are required to fulfill two



different internships. Through these experiences students gain knowledge of the industry in an actual work situation, giving us a chance to apply what we have been taught in our classes, and embedding the principles further into our mind. The internship

program is probably the main way students get experience, but not the only way.

The school sponsors many teams to go to competitions



in Orlando Florida, and Reno Nevada. I was a member of one of the teams that went to Orlando Florida, in January 2006. The photo to the left is the trophy we received for the first place Two Year Competition Team. Through that

competition I gained more knowledge that has helped me so much in my jobs.

Another big part of the Department is an organization called the Architecture & Construction Management Society (ACMS). The society provides the members with unlimited resources to companies around the globe. The ACMS is very important to the Department. If there is one thing that I feel could be better at the school, it would be the involvement in ACMS. The classroom can only teach us so much and the teachers there do an excellent job of that, but with the help of the ACMS, programs are set up to allow us to apply that knowledge. The ACMS encourages the desire to be in this industry, producing students that love what they do.

Bryoni Southwick
BYUI Construction Management Major