

# A Practical Examination of Building Information Modeling (BIM)

Presented by Central Pennsylvania Chapter of The Construction Specifications Institute

*This program reprises and expands upon a well-attended CPC CSI dinner meeting program from a year ago.*

The new technology called BIM is quickly establishing itself as a cutting edge approach to building in the 21st Century. BIM uses traditional data and information to create 3-dimensional, real-time, dynamic building models that represent building geometry, spatial relationships, geographic information, and system quantities and properties, while allowing realistic 3-D visualization of the building elements.

BIM models provide the potential for information to be exchanged between the design team, contractors, subcontractors, material suppliers, and owners, with each adding unique information, so that a complete picture of the project is embedded in the finished model. The ability of each entity to contribute to one comprehensive model holds the promise of greatly reducing the chance of errors, omissions, and conflicts at the jobsite.

The BIM model is also useful during the construction process. Because all design is contained in one model, problems and conflicts are more likely to be discovered in the design stage, and can be corrected before they become problems on the jobsite and result in costly change orders. Also, the model can assimilate important information about building components, such as product specifications, R-values, structural information, cost data, scheduling information, and even manufacturer's data. Imagine how useful this information could be for the construction team.

This technology is still very new, and there are still many unanswered questions about BIM. How will BIM influence and effect end-users, as BIM is not yet an industry standard? What about the learning curve associated with this technology? How will BIM affect productivity? Who has ownership of the design, and who is assuming the risk?

This program on BIM is designed to answer many of your most basic questions about this emerging technology. What is BIM? How does it work? Who is using it? What should my firm be doing to get educated about BIM?

**Speaker:** Brian Krause is the Regional Manager for Virtual Design & Construction for Turner Construction Company's Atlantic Region. Brian is responsible for the implementation and employee training of Building Information Modeling (BIM) and Virtual Design & Construction (VDC). Brian is currently supporting the BIM and VDC implementation for Turner on over 20 active construction projects along the east coast valued at approximately \$3.6 Billion. He started with Turner in 2001 as a Field Engineer and has worked his way through various field, engineering, and management positions on projects such as the Dulles North and West Flank Parking Garages, Howard Hughes Medical Institute Janelia Farm Research Campus, FDIC Headquarters at Virginia Square, Dulles Package 6 Automated People Mover Station, and Fort Belvoir Community Hospital. Brian holds a Bachelor of Architecture degree from Virginia Tech. He recently was a member of the first graduating class of the VDC (Virtual Design & Construction) Certificate Program at Stanford CIFE (Center for Integrated Facility Engineering), one of the first certificate programs of its kind.

Qualifies for two AIA/CES Learning units



**Date: Wednesday, March 17, 2010**

Time: 9:00 a.m. to 11:00 a.m.

Location: Radisson Hotel, Camp Hill, PA.

Cost: \$25, Includes coffee, juice and pastries.

This seminar is presented in conjunction with the Chapter's 35th Exhibitor's Show that opens 11:00 a.m. at the same location.

**Reservations are required by Monday, March 15, 2010**

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## Reservation Form for BIM Seminar



Name: \_\_\_\_\_

Address: \_\_\_\_\_

Phone: \_\_\_\_\_

Return to: Rich Forsberg, CSI, CCCA  
312 Garfield Street,  
York, PA 1740  
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(Please make checks payable To Central Pennsylvania Chapter, CSI)