

**ACI Committee 131**  
**Building Information Modeling**  
Meeting at ACI 2011 Spring Convention – Tampa, Florida  
Tuesday, April 5, 2011 - 3:00 pm to 5:00 pm

**Approved Minutes**

**1. Introductions**

Members Attending:

Kevin Ake	Shelby Group
Dick Birley	Condor Rebar
Allan Bommer	Bentley Systems
Christopher Brown	Skidmore, Owings & Merrill
Brady Buckley	Harris Rebar
Barry Butler	Design Data
Pete Carrato	Bechtel
Jim Davy	McHugh Construction
Chuck Eastman	Georgia Tech
Sid Freedman	PCI
Dave Grundler	aSa
Rolfe Jennings	CMC Americas
Julian Kang	Texas A & M
Bill Klorman	Klorman Construction
Ron O’Kane	Leigh and O’Kane
Dan Russell	Sundt Construction
William Shebetka	Baker Concrete
Jim Volk	Gerdau Ameristeel
Peter Zdziebloski	CMC Rebar

Associate Members Attending:

Daniel Berend	Facchina Construction Co.
Aldo De La Haza	Dynasty Group

Guests Attending:

Terry Baird	SDC Staff
Chris Darnell	ACI Staff
Kelly Dudley	CMC Rebar
Dennis Fontenoj	Gerdau Ameristeel
Dennis Hunter	AutoDesk
Brian Johnson	Harris Rebar
Mustafa Igdelioglu	Nemetschek
Ted Mize	Gerdau Ameristeel
Daniel Monaghan	Meadow Burke
Paul Morin	Ash Grove Materials
Lance Osborne	
Rusty Owings	

Zach Peterson  
Bob Risser  
John Roberts  
Joe Sanders  
Matthew Swarts  
Carl Taylor  
Shane Walters  
Chad Volkert

CRSI  
Northeast Solite  
Charles Pankow Builders  
Georgia Tech  
Tekla  
Tilt-werks  
Meadow Burke

## **2. Meeting Minutes**

The 2010 Fall convention meeting minutes were approved as written.

## **3. LAX Video Update**

Julian Kang presented a video of Klorman's LAX project created by the Education Task Group. It was a very good achievement in only six months. The two educational foci of the video are clash detection and the use of RTS (robot total stations). The planned enhancements of the video include showing more activities, and showing how the tools are used on site.

TAC is figuring out what process will be used to review and distribute videos with the ACI logo – this is the first video that has been proposed to TAC. Part of the process will likely include the committee balloting the video, just like ACI documents are balloted.

There is a need to offset costs for production (Julian used non-ACI funds for this) and a desire to improve the professionalism of the production. Perhaps sponsorships are a possible solution.

Contact Julian if you want to help with the video and/or the Education Task Group.

## **4. NBIMS Working Group**

Pete Carrato presented a summary of some informal leadership meetings, including one with NBIMS. A consensus is developing that we (the concrete industry) are much more likely to be successful in our creation of a cast-in-place IFC if we utilize consultants to shepherd us through the NBIMS process and help with the technical parts.

The first step in the process is to create a "Working Group". The Working Group is used for both creation of the IFC and its long term maintenance. This requires a long-term commitment on the part of ACI.

ACI (along with CRSI, etc.) is trying to determine how we get the funding, hire consultants, manage contracts, etc.

## **5. Software Task Group**

Allan Bommer briefly reported on the "IFC Objects and Geometry for CIP Concrete" report created by the Software Task Group that was distributed to committee before the convention. The report summarizes the current state of modeling CIP concrete using IFC, and perhaps allows us to jump-start the IFC creation process.

## **6. IFCs IDMs, MVDs Training**

Chuck Eastman presented "Interoperability Issues and Methods" to the committee.

Model Views (MVDs) are optimized and reduce data for a particular task/exchange. Different geometry is needed for different tasks. Information Delivery Manual (IDM) is an analysis of a business process and a detailed specification of the information in the related data transfer.

The process for developing an IFC is:

- Form Working Group
- Identify Exchanges
- Specify Exchange Data (and convert to IFC spec)
- Help Software Companies implement/test
- Test/Certify
- Open testing and validation

For CIP concrete, it is estimated that 80% of the required “concepts” are already in the precast IFC. Because the biggest payoff is in construction, we may focus on “the end” and work our way to “the beginning”.

From the PCI effort, we learned that it is important to target the right IFC release (2x4 seems obvious for us) and to live with what is available in that release, not depend upon features expected to be available in some following release.

#### **6. Core IDM Group**

Pete Carrato announced that he was looking for a small group of knowledgeable, committed people who were interested in joining a core IDM group that would likely meet four times (two days each) over the next 18 months. Group members would pay their own way.

Talk to Pete if you are interested.

#### **7. Bonus Video**

Julian Kang showed a second video created by his students of the diagrammatic construction of a concrete building.

#### **8. Executive Committee Meeting**

Bob Risser and Bill Klorman met with the Executive Committee during the meeting. Bob reported that we still have strong support from the Executive Committee.

#### **9. Adjournment**

The meeting was concluded at 5:00 pm.