

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

Unapproved 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* | |
| Mustafa Igdelioglu* | |
| Ted Mize* | Harris Rebar |
| Daniel Monaghan* | Nemetschek |
| Paul Morin* | Gerdau Ameristeel |
| Lance Osborne* | Meadow Burke |
| Rusty Owings* | Ash Grove Materials |
| 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.