

ACI Committee 131
Building Information Modeling
Meeting at ACI 2011 Spring Convention – Tampa, Florida
Tuesday, October 18, 2011 - 3:00 pm to 5:00 pm

Unapproved Minutes

1. Introductions

Members Attending:

Dick Birley	Condor Rebar
Allan Bommer	Bentley Systems
Christopher Brown	Skidmore, Owings & Merrill
Brady Buckley	Harris Rebar
Barry Butler	Design Data
Pete Carrato	Bechtel
Dave Grundler	aSa
Julian Kang	Texas A & M
Bill Klorman	Klorman Construction
Ron O’Kane	Leigh and O’Kane
Joe Sanders	Charles Pankow Builders
William Shebetka	Baker Concrete
John Turner	CRSI
Alistair Wells	Tekla
Peter Zdgiebloski	CMC Rebar

Associate Members Attending:

Daniel Berend	Facchina Construction Co.
Dennis Fontenoj	CMC Rebar

Guests Attending:

Dave Anderson	Condor Rebar
Mike Carrigg	Oregon State University
Chris Darnell	SDC Staff
Kelly Dudley	ACI Staff
Robbie Hall	Gerdau Ameristeel
Joe Kelly	Sherman Industries
Eric Kraeutle	Ambassador Steel
Lance Osborne	Meadow Burke
Bob Risser	CRSI
Jay Shilstone	Command Alkon
Doug Sordyl	SDC Staff

2. Meeting Minutes

The 2011 Spring convention meeting minutes were approved as written.

3. Update on IFC/IDM Working Group

Carrato and Klorman are co-chairs of the Working Group. The (current) primary goal of the group is to create an IDM (Information Delivery Manual) for reinforced concrete. Subsequent goals will be an MVD (model view definition) and finally endorsement from industry groups. The working group would like to have the IDM ready for ballot in spring 2012. There will be 3 or 4 working group meetings total. The first will be on the Georgia Tech campus in December. The group is waiting on a proposal from Chuck Eastman for facilitating the meeting. The group is still looking for a testing lab representative.

4. Update on PCI Meeting

Wells gave an update on the upcoming PCI meeting. Some software vendors (Graphicworks, Nemeschek, Tekla and Structure Works) will do a live test/demo of precast interop to see what works and what doesn't work. The precasters are one step ahead of us, so we can learn from their successes and struggles.

5. AISC Moving to IFC

AISC has announced that their long-term plan is to support IFC. CIS/2 will still remain a viable format for a long time (10 years?)

6. MOA with NIBS

Carrato and Darnell reported on ACI's Memorandum of Agreement with NIBS (National Institute of Building Science). ACI gets:

- A (free) seat on the buildingSMART alliance Board.
- A presence for the IFC/IDM project ("Cast-in-place Concrete") effort on the standard IFC MVD website.
- Instant credibility for our efforts.
- Not much else...

NIBS seems very happy with our project. Other organizations (CRSI, PTI, NRMCA, ACC, etc.) are encouraged to join the effort by having an MOA with NIBS.

bSa appears to be an unwieldy organization (8 hour conference call with 100 attendees?!?). bSa is loosely tied with buildingSMART international. The groups are informally coordinated (sharing some key members, etc.), but are clearly separate organizations.

7. TAC Briefing on BIM

Carrato presented to TAC an overview of BIM and 131. The 131 group is "shaking up" ACI, but the ACI is reacting quite quickly and positively. Some changes have been made to the Technical Committee Manual to allow 131 to produce and distribute videos (more below).

8. BIM Videos

Kang presented the Education Subcommittee's activities related to creating short BIM videos. TAC has defined a process for the creation and approval of ACI-endorsed videos:

1. TAC must approve the intention to produce a video on a particular topic.
2. Committee must create and approve (ballot) a detailed script/storyboard.
3. TAC must approve detailed script/storyboard.
4. Video is created.
5. Committee must approve (ballot) video (75% approval required, no need to resolve negatives)

6. TAC must approve video.

There are two videos that are currently planned (and topics approved by TAC):

1. BIM for Reinforcement Steel Bar Fabrication (BIM intro and clash detection)
2. BIM and Robotic Total Station for Cast-in-Place Concrete Construction

The committee discussed changing the order of the videos, but decided to keep the proposed order.

Kang is looking for video snippets (bar fabrication, etc.) that can be used in these and other videos.

9. Bentley Presentation on IFC, Structural Engineers and ISM

Bommer presented on the struggles that structural engineers are having with IFC and BIM in general. Many structural engineers have given up keeping their analytical/design models in sync with the physical model.

The presentation showed Bentley's ISM (Integrated Structural Modeling) technology that alleviates the problem for structural engineers and provides them with a mechanism to link their analytical/design models with physical BIM models and IFC, managing changes and revisions over time.

10. New Business

A new technical session is under consideration. The committee will have a serious discussion of this at the spring convention in Dallas.

The committee needs to define BIM for our use. We may just steal a definition from AIA or GSA. We need to determine if bSa has a definition.

11. Adjournment

The meeting was concluded at 5:00 pm.