

Welcome to 2006 Building Connections

Stephen R Hagan FAIA

2006 Chair

AIA Technology in Architectural Practice Knowledge Community

Purpose

- Gather the Industry (.gov, .com, .edu) in one room once a year to discuss:
 - Standards efforts
 - Pilot Efforts
 - Guides and Policies
 - Implementation Roadmaps
 - Collaborations
- *Edges Next Week!*

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Update on Standards

- AISC
- CSI
 - Omni Class

Academic Initiatives

- Question about use of “caves” for private sector

Open Forum

- Plan rooms and fax machines and bidding
- Electronic bid rooms documents in different formats
- Protection of intellectual property

Open Forum

- Economic analysis – life cycle curves
- CURT, AGC, AIA, CMAA agree
 - BP model
 - Prioritized set of use cases
 - Timeline
- Commit resources
- Cultural change
 - Value Chain—understand their part

Open Forum—Next Years Action Items

- National BIM Standard
 - Framework for Consistency
 - Use Case Framework International
- AIA Take leadership in use cases for design
- AGC take leadership in use cases for construction
- CMAA take leadership in use cases for CMs
- CSI, CSRF,
- Not here: DBIA, ACEC, AASHTO, ashrae, who else?

Open Forum—Next Years Action Items

- Verification, Accreditation and Validation of the Models
- Case Studies—Academia, metrics
- Performance based case studies
- Standard template for case studies
- Surveys
 - Owner Surveys such as CMAA and CIFE
- More than just BIM data

Open Forum—Next Years Action Items

- Authoritative sources
 - Definition and dictionary items
 - Information requirements
 - NBIM step ups to the plate for this effort
 - Should this be NIBS and its councils?
- Continuing discussion of standards and conformity assessment
- Where is the standard dissemination point
- Educating professionals

Open Forum—Next Years Action Items

- Extend some existing web site mechanisms

Current available IDMs

Current available in-process IDM projects

Initial work process top level models

Where is the portal to all of this??: WBDG
IDM.buildingsmart.no

Open Forum—Next Years Action Items

- Quality Process
- A lot of European and global partners would be incredibly collaborative
 - Get best of European practice

Update on Standards

- Harmonization efforts
 - Example of wall types, 5 different organizations – who is authoritative source?
 - Harmonization committee on IFMA, ANSI, and ASTM on space calculations, ASTM E6.25
- NIBS Pankow foundation
- CSI, updating of Uniformat
- Topic: service oriented architecture

Update on Standards

- Validation
- Application to application
- Use case templates
- Use pilots to define use cases
- All semantic concepts should be drawn from dictionary

Update on Standards

- AISC
- CSI
 - Omni Class
- OGC and OWS-4 Testbed
- AGC xml

Feedback Open Forum

- Your Efforts
 - Standards efforts
 - Pilot Efforts
 - Guides and Policies
 - Implementation Roadmaps
 - Collaborations
- *Post to Building Connections*
- *Write ups for Edges Next Week!*

Concluding Remarks

- Your Efforts
 - Standards efforts
 - Pilot Efforts
 - Guides and Policies
 - Implementation Roadmaps
 - Collaborations
- *Post to Building Connections*
- *Write ups for Edges Next Week!*

buildingSMART

- Patrick MacLeamy

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Upcoming Events

HRC Programs at the National Trust for Historic Preservation Conference
Pittsburgh, PA
October 31 -November 5, 2006

Building Conversations: 2006 CAE Fall Conference
Austin, TX
November 9 - 11, 2006

Symposium on Multifamily Liability
Baltimore, MD
November 11, 2006

Energy, Currency, and Memory: Sustaining the Value of Historic Resources
Minneapolis-St. Paul, MN
November 17 - 19, 2006

Workshop for the 2006 Guidelines for the Design and Construction of Health Care Facilities
Newport Beach, CA
December 1 - 2, 2006

AIA PodNet

Architecture Knowledge Review Podcast Series

Architecture Knowledge Review is a podcast series for design professionals, featuring interviews, discussions, and best practices by architects and other design professionals who are at the forefront of the profession. Visit this page often for more information on specific topics and presentations.

How to use:

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GSA Mandates on Building Information Modeling

In 2003, the U.S. General Services Administration (GSA) created its own 3D-4D-BIM Program and is committed to the strategic and incremental adoption of these technologies in the design of its projects. Steven Hagan, FAIA, and Calvin Kam, Ph.D., discuss the benefits of BIM in the design process with the AIA Podcast Network's Markku Allison, Resource Architect, AIA.

[Read More](#) | [Bio](#)

Podcast: 2006/09/18 -- 17:00

Presenters: Calvin Kam, Ph.D. and Steve Hagan, FAIA

XML

http://www.idimultimedia.net/clients/aia_podcast/podcast.xml

iTunes

<http://phobos.apple.com/WebObjects/MZStore.woa/wa/viewPodcast?id=160877729>

MP3

http://www.idimultimedia.net/clients/aia_podcast/09112006/kamhagan.mp3



Emerging Technology and Architectural Practice

Technology is revolutionizing the design process in amazing ways by making knowledge-sharing more efficient and dynamic. Recently, Tony Rinella, Assoc. AIA, CIO of Anshen+Allen Architects, spoke with the AIA Podcast Network's Markku Allison, AIA, Resource Architect, about the benefits of virtual design and construction.

[Read More](#) | [Bio](#)

Podcast: 2006/09/06 -- 19:41

Presenters: Tony Rinella, Assoc. AIA



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Technology in Practice

The AIA Technology in Architectural Practice (TAP) Knowledge Community serves as a resource for AIA members, the profession, and the public in the deployment of computer technology in the practice of architecture. TAP monitors the development of computer technology and its impact on architecture practice and the entire building life cycle, including design, construction, facility management, and retirement or reuse.

Contact: [Katherine Gupman](#)

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EDGES Newsletter includes news, trends, and best practices of interest to members of the AIA Technology in Architectural Practice (TAP) Knowledge Community.

- > [Current Issue](#)
- > [Tips for Authors](#)

News

- > [Starting a Knowledge Community: A Toolkit for Components](#)
- > [AIA Building Connections](#)
- > [Fabrication Conference Coverage in ArchitectureWeek](#)
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Best Practices

- > [Electronic Data Transfer: Electronic Signatures](#)
- > [Timely, Appropriate Information Sharing: The GSA Public Building Service Project Information Portal](#)
- > [Maximizing Revenue with Accurate Data: GSA's Spatial Data Initiative](#)

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TAP Highlights

2005 Report on University Research

The following studies from this research report are relevant to our Knowledge Community:

- > [Information Visual Design: The Growing Challenges of a Data Saturated World \(PDF 2.2mb\)](#)
- > [Content Analysis of Web-Based Collaborative Design: Empirical Evidence of Design Process \(PDF 808k\)](#)

Announcing 2006 BIM Awardees

On June 6, the Second Annual BIM [Building Information Modeling] Awards Competition announced seven citation winners and one honorable mention during its conference, Models for the Future of the Architecture Profession: The Risks, Rewards, and Opportunities of Technology in Los Angeles. Awards were presented in the following six categories—

> **Creating Stellar Architecture Using BIM**

[Fredric C Hamilton Building M.A. Mortenson Company](#)

> **Design/Delivery Process Innovation Using BIM**

[Flint Global V6 Plant Expansion Ghafari Associates/GM](#)

> **Inspirational Pilot Projects Demonstrating New Ways Forward**

[Satterfield & Pontikes Kirksey Corporate Headquarters](#)

> **Analysis or Simulation**

[Library Transformation Leo A Daly](#)

2006 Building Connections
3rd Congress on Digital Collaboration