BIM-M 2015 Symposium

April 9-10, 2015

David T. Biggs, PE, SE  BIM-M Coordinator

www.bimformasonry.org
Welcome

St. Louis Masonry Center

• Thanks to...
  – **Mason Contractors Association of St. Louis**
    • Facility use and break sponsorship
    • www.masonrystlouis.com
  – **Masonry Institute of St. Louis**
    • Symposium planning and local coordination
    • www.masonrystl.org
Masonry Institute of St Louis

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John Finder  
Bob Guinn  
John Hopkin  
Brian Jennewein
Symposium

• Thanks to Sponsors for funding
  – Program
  – Luncheons

• Thanks to Mason Contractors Association of St. Louis
  – Breaks
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Russell Gentry  
Jamie Davis  
Darrell McMillian and Fred Kinateder  
Art Theusch  

BIM-M Program Management
BIM-M

• Started in 2012
• International – representing masonry industry from US and parts of Canada

MISSION Statement:
To unify the masonry industry and all supporting industries through the development and implementation of BIM for masonry software to facilitate smoother workflows and collaboration across all disciplines from owner, architect, engineer, manufacturer, mason, contractor, construction manager, and maintenance professionals.
Web site (www.bimformasonry.org)
2012 Roadmap

Phase II: Development
- Planning:
  - March 2013
  - June 2013
  - Jan 2014
  - June 2014

- Development:
  - Masonry Unit Model Definition
  - Masonry BIM Benchmark
  - Masonry Wall Model Definition
  - BIM-M Contractor Input

Phase III: Specification
- Planning:
  - Jan 2015
  - June 2015
  - Jan 2016

- Specification:
  - BIM-M Specification (Part 1)
  - Structural Engineering BIM-M
  - BIM-M Construction Workflows

- Symposium

Phase IV: Implementation
- Planning:
  - June 2016
  - Jan 2017
  - June 2017

- Implementation:
  - BIM-M Specification (Part 2)
  - BIM-M Design to Construction
  - Masonry Architectural Design
  - BIM-M Contractor Training

- Symposium
Project 3: Masonry Wall Model Definition

- Develop data model and BIM representation for masonry walls.
- Work by TMS Committee chaired by Jamie Davis

- This project is where the industry identifies what information needs to be in the software for masonry walls.
Project 4: BIM-M Contractor Input

1. Tasks 1-7: Engage mason contractors to assess their needs (and the needs of masons) relative to BIM and construction.

2. Task 8: Training for contractors and masons.
Welcome

The Contractor Input Work Group (CIWG) is a subset of the Building Information Modeling for Masonry (BIM-M) initiative.

Mason contractor input is being solicited to assist the BIM-M initiative with expanding the influence of masonry materials and systems in BIM related processes.

For more information please visit the INFO page here.

BIM for Masonry Initiative: An International Roadmap

Photos Courtesy Georgia Tech Digital Building Lab
An Updated Roadmap for Developing and Deploying Building Information Modeling (BIM) for the Masonry Industry

Sponsors
International Masonry Institute (IMI), International Union of Bricklayers and Allied Craftworkers (IUBAC), National Concrete Masonry Association (NCMA), Mason Contractors Association of America (MCAA), The Masonry Society (TMS), and Western States Clay Products Association (WSCPA)

Prepared by
BIM-M Coordinator: David Biggs, PE, SE, Biggs Consulting Engineering
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Fred Kinateder, Kinateder Consulting

and

Digital Building Laboratory
Georgia Institute of Technology
Russell Gentry, Project Manager
Charles Eastman, Technical Advisor

April 1, 2015
www.bimformasonry.org
2015 Updated Roadmap (just completed)

Phase II: Development
- Masonry Unit Model Definition
- Masonry Wall Model Definition
- BIM-M Best Practices Guides
- Masonry BIM Benchmark
- BIM-M Contractor Input

Phase III: Specification
- Masonry Unit Model Definition
- Masonry Wall Model Definition
- BIM-M Specification (Part 1)
- Structural Engineering BIM-M
- Contractor Technology Input
- BIM-M Construction Workflows

Phase IV: Implementation
- BIM-M Specification (Part 2)
- BIM-M Design to Construction
- Early Stage Masonry Architectural Design
- BIM-M Contractor Training

Symposium
- April 2015
- Jan 2016
- June 2016
- Jan 2017
- June 2017
- Dec 2017
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>7am-8am</td>
<td>Registration/Continental breakfast</td>
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<tr>
<td>8:00-8:45</td>
<td>“Operating in a BIM Environment for Contractors” - Mark Swanson, IMI, Minneapolis, MN</td>
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<td>8:45-9:15</td>
<td>“A Contractors Perspective on BIM for Masonry”, Jim Schrader, Power Construction, Chicago, IL</td>
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<td>9:15-9:45</td>
<td>“BIM by Mason Contractors”, Adrian Siverson, R&amp;D Masonry, Marysville, WA</td>
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<td>9:45-10:00</td>
<td>Break</td>
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<tr>
<td>10:00-10:30</td>
<td>“BIM FOR MASONRY: A CASE STUDY OF BIM INTEGRATION IN A NEW LABORATORY BUILDING” - Peter Sindic, Richards &amp; Weyer Construction, Lyons, IL and Scott Conwell, IMI, Chicago, IL.</td>
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<td>10:30-11:00</td>
<td>Tradesmen’s Software for Contractors:  Bill Pacetti, Jr, Tradesmen’s, Morris, IL</td>
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<td>11:00-12:00</td>
<td>“Customized 3D Modeling for Contractors”, Tom Cuneio, Cad Blox, St. Louis, MO</td>
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Luncheon - Friday

Mobile Device Course – Applications
### Friday Afternoon Schedule

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>12:00-1:00</td>
<td>Luncheon and “Mobile Apps for Construction” presentation: Art Theusch, Collaborative Consulting, Lansing, MI</td>
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<tr>
<td>1:00-1:30</td>
<td>BIM-M Summary and Closing</td>
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Follow-up

• Afterward:
  – Presentations will be posted to web site for download
    www.bimformasonry.org

Next Meetings:
  – TMS BIM-M Committee, Denver CO – May 15, 2015
BIM-M 2016 Symposium

• Fall 2016

• Possibly in conjunction with the BIM Forum