347 – Formwork for Concrete

Virtual Meeting - Join Link: https://global.gotomeeting.com/join/478588829

Tuesday, February 11, 2020, 11:00 AM to 12:30 PM (Eastern)

Mission: Develop and report information on formwork for concrete construction.

Goals: 1) Periodically update existing committee documents to reflect current practice and research developments; 2) Develop a design specification for formwork; 3) Develop guidance on formwork pressure when using self-consolidating concrete (SCC); 4) Serve as a resource for ACI Committee 301 on formwork and formed concrete surfaces; 5) Support development and presentation of ACI formwork seminars, webinars, and convention sessions; 6) Encourage research on concrete formwork design, construction, and performance.

In Attendance:

Jeff Jack  RedBuilt  Chair
Nicolaus Coffelt  Aluma Systems  VM
Chris Garcia  Pankow Builders  VM
Andrew Gray  EFCO Corp.  VM
Tim Hayes  Ceco Concrete  VM
Mark Hirschi  Baldrige Associates  VM
Kris Hughes  Baker Concrete Const.  VM
David W. Johnston  North Carolina State Univ. (retired)  VM
Phil Jones  EllisDon  VM
Destry Kenning  Nox-Crete Products Group  VM
Bob Kent  Doka USA  VM
Kevin Koogle  Koogle Engineering, LLC  VM
Yvonne Nelson  Form Services  VM
Doug Peters  Christman Constructors  VM
Jeff Pritchett  Crimson Engineering  VM
Brian Ruege  Kiewit Engineering  VM
Richard Ryon  RMD Kwikform  VM
Douglas Schoonover  Atlas Construction Supply  VM
James Tkach  Largo Concrete Inc.  VM
Daniel Toon  United Forming Inc  VM
Scott Winch  PERI Formwork Systems  VM

Jennifer Clark  Dun Par Engineered Form Co  AM
Andrew Lloyd  MEVA Formwork Systems  AM
Andy Pearson  EFCO Corp.  AM
Dimitriy Petrov  Titan Formwork Systems  AM
Amerald Simanungkalit  Titan Formwork Systems  AM
Committee Members Absent:

- Rick Eder                      Ceco Concrete Construction  Secretary
- Rodney Adams                   Baker Equipment & Materials LTD   VM
- Mary Bordner-Tanck            R H Bordner Engineering          VM
- Eamonn Connolly                James McHugh Construction Co   VM
- James Cornell                  J. N. Cornell Assoc.             VM
- Brian Golanowski               Universal Forest Products        VM
- Supriya Gupte                  Accu-Crete                     VM
- Hector Olivas                  Dayton Superior                   VM
- Eric Peterson                  Webcor Builders                  VM
- Steffen Pippig                 MEVA Formwork Systems           VM
- Ken Pratt                      Swanson Group                    VM
- Eduardo Rojas                  University of Queretaro           VM
- Aviad Shapira                  Technion/Israel Institute of Tech. VM
- John Simpson                   Simpson Engineering LLC           VM
- Peri Stivaros                  Feld Kaminetzky & Cohen-GEI      VM
- Ralph Tulis                    Structures Consulting             VM
- Thomas West                    Barton Malow                     VM

1. Call to Order
   Chairman Jack called the meeting to order at 11:05am EDT.

2. Announcements
   2.1 Meeting and Session details for Spring Convention
       The details for the committee meetings and void form task group meeting were shared. Additionally, everyone was encouraged to attend the session on formwork design that will be moderated by Peri Stivaros and have presenters from several of our committee members. This session will be held on Sunday afternoon 3:30-5:30 PM in the Grand G.

   2.2 Ballot Results for Chapters 1, 4, 5, 8
       The ballot for chapters 1, 4, 5, and 8 of the Formwork Design Specification closed on February 3rd. We had great participation with 33 members voting and providing comment. All 4 balloted chapters passed. We received just under 200 comments, 28 of which were negatives. All comments are being compiled and organized with the plan that we will as a committee begin to develop response and resolution to these starting at the committee meetings at the Spring Convention.

3. Approval of Minutes
   The meeting minutes for the January 7th Virtual Meeting were distributed prior to the meeting. A motion was made by Bob Kent (seconded by Doug Schoonover) to approve the minutes as presented. The motion to approve minutes was voted on and passed unanimously (16 Aff / 0 Neg / 0 Abst).
4. **Design Specification for Formwork**

Jeff Jack guided the committee through resolution of balloted items on Section 7 of the Specification document. Only selected items were discussed and voted upon. The following table summarizes the action made by the committee response to votes and comments received during balloting.

<table>
<thead>
<tr>
<th>Comment Number(s)</th>
<th>Class</th>
<th>Ballot as</th>
<th>Motion / Second</th>
<th>Aff / Neg / Abst</th>
</tr>
</thead>
<tbody>
<tr>
<td>221 (230, 233)</td>
<td>AM-Com</td>
<td>Revisit to correct</td>
<td>Kent / Schoonover</td>
<td>18 / 0 / 0</td>
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<tr>
<td>232</td>
<td>AM-Com</td>
<td>Non-Persuasive</td>
<td>Schoonover / Kent</td>
<td>19 / 0 / 0</td>
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<tr>
<td>235</td>
<td>AM-Com</td>
<td>Persuasive</td>
<td>Johnston / Kent</td>
<td>20 / 0 / 0</td>
</tr>
<tr>
<td>252</td>
<td>AC</td>
<td>Persuasive</td>
<td>Johnston / Schoonover</td>
<td>18 / 0 / 0</td>
</tr>
<tr>
<td>229</td>
<td>AC</td>
<td>Persuasive</td>
<td>Gray / Kent</td>
<td>18 / 0 / 2</td>
</tr>
</tbody>
</table>

5. **Adjournment**

The virtual meeting scheduled for March 3rd will be cancelled. The next meeting will be at the Spring Convention in Chicago, IL at the following locations and times:

- **Saturday, March 28th**: 2:00PM-9:00PM  Vienna Room (Rosemont)
- **Sunday, March 29th**: 8:00AM-12:00PM  London Room (Rosemont)