Meeting Agenda

347 – Formwork for Concrete

Cincinnati, OH

Duke Energy Convention Centre and Hyatt Regency Cincinnati

Saturday, October 19, 2019, 2:00 PM to 9:00 PM (C-200)
Sunday, October 20, 2019, 8:00 AM to 12:00 PM (C-200)

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.

Committee Members

Jeff Jack          RedBuilt  Chair
Rick Eder          Ceco Concrete Construction  Secretary
Chuck Larosche     Wiss Janney Elstner Assoc.  TAC Contact
Rodney Adams       Baker Equipment & Materials LTD  VM
Mary Bordner-Tanck R H Bordner Engineering  VM
Nicolaus Coffelt   Aluma Systems  VM
Eamonn Connolly    James McHugh Construction Co  VM
James Cornell      J. N. Cornell Assoc.  VM
Chris Garcia       Pankow Builders  VM
Brian Golanowski   Universal Forest Products  VM
Andrew Gray        EFCO Corp.  VM
Supriya Gupte      Accu-Crete  VM
Tim Hayes          Ceco Concrete  VM
Mark Hirschi       Baldridge and Assoc.  VM
Kris Hughes        Baker Concrete Const.  VM
David W. Johnston  North Carolina State Univ. (retired)  VM
Roger Johnston     Crimson Engineering Associates  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
Hector Olivas      Dayton Superior  VM
Doug Peters        Christman Constructors  VM

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Eric Peterson                      Webcor Builders                    VM
Steffen Pippig                      MEVA Formwork Systems               VM
Ken Pratt                          Swanson Group                      VM
Brian Ruegge                       Kiewit Engineering                  VM
Richard Ryon                       RMD Kwikform                        VM
Douglas Schoonover                  Atlas Construction Supply             VM
Aviad Shapira                      Technion/Israel Institute of Tech.    VM
John Simpson                       Simpson Engineering LLC              VM
Peri Stivaros                      Feld Kaminetzky & Cohen-GEI          VM
James Tkach                         Largo Concrete                      VM
Daniel Toon                        United Forming Inc                  VM
Ralph Tulis                        Structures Consulting                 VM
Thomas West                         Barton Malow                         VM
Scott Winch                        PERI Formwork Systems                VM

Gardner P (Jum) Horst              Horst and Associates                  Consulting Member
H. S. Lew                           NIST                                    Consulting Member
Rolf Spahr                          Spahr Consult                        Consulting Member

Valery Aladiev                     PERI Formwork Systems                AM
Aali R Alizadeh                    Giatec Scientific Inc               AM
Jazmin Anaya                       PERI Formwork Systems                AM
Kim Basham                         KB Engineering LLC                  AM
Francisco Bermudez                  Arber & Associates Inc              AM
Andrew Bombassaro                   Aluma Systems                        AM
Eswar Burra                        Southern Pan                         AM
Brian Carson                        Osburn Contractors                   AM
George Charitou                     EllisDon Construction                AM
Jennifer Clark                      Dun Par Engineered Form Co.         AM
Russ Collins                        Gregory Construction Services        AM
Michael Core                        AM
Michael Damme                       Sundt Const.                        AM
Anthony DeCarlo                     Tru Wall Concrete Inc                AM
Sean Dingley                       Adb Engineering                      AM
Jeff Erson                         Erson and Assoc.                    AM
Noel Gardner                       Univ. of Ottawa (retired)             AM
Sam Greenberg                      Dansco Engineering                   AM
Danny Gumm                         Sundt Const.                        AM
Rishi Gupta                        University of Victoria                  AM
Jonathan Hawkins                   G&C Concrete Construction            AM
Michael Hernandez                   Parsons                                   AM
Alan Herndon                       AM
Matthew Hummel                      Lend Lease                               AM
Rocky Janney                       Koogle Engineering                    AM
Kamal Khayat                       Missouri Univ of Science & Tech.      AM
Chong Kim                          D.H. Charles Engr.                   AM
Markus Klooth                      Webcor Builders                      AM
Jim Kretz                          Walbridge Co.                        AM
Antonio Limbardo                   Engineered Devices Corp              AM
Andrew Lloyd                       MEVA Formwork Systems                AM
Saturday Afternoon Meeting (C-200 Room)

1. **Call to Order (2:00-2:15)**
   1.1 Introduction of Members and Visitors
   1.2 Attendee List, pass around and sign
   1.3 Announcements

2. **Design Specification for Formwork (2:15-6:00)**
   2.1 Work through remaining ballot responses to comments

3. **Break for Dinner (together) (6:00-7:30)**

4. **Design Specification for Formwork (7:30-9:00)**
   4.1 Prepare content for upcoming ballot of other sections in document

5. **Adjournment (9:00)**
Sunday Morning Main Committee Meeting (C-200 Room)

1. Call to Order (8:00-8:15)
1.1 Introduction of Members and Visitors
1.2 Attendee List, pass around and sign
1.3 Roster; pass around, make corrections to contact info
1.4 Announcements
1.5 Committee membership; New Members, Resignations

New Voting Members -
- Chris García – Pankow Builders
- Mark Hirschi – Baldridge & Assoc.
- Hector Olivas – Dayton Superior
- James Tkach – Largo Concrete Co.

Resignations from VM -
- Ken Berndt – Ceco Concrete (retired)
- Bob McCracken – EFCO Corp. (retired)

Reclassified to Consulting Members -
- H.S. Lew – NIST
- Rolf Spahr – Spahr Consult

Reclassified to Associate Members -
- Jeff Erson – Erson and Assoc.
- Jim Kretz – Walbridge Co.

New Associate Members -
- Jazmin Anaya – Peri Formwork Systems
- Jennifer Clark – Dun Par Engineered Form Co.
- Michael Damme – Sundt Construction
- Danny Gumm – Sundt Construction
- Dimitriy Petrov – Titan Formwork Systems
- John Suther – Wayne Brothers Inc.
- Eric Twomey – Simpson Gumpertz & Heger

2. Approval of Minutes (8:15-8:30)
2.1 Approval of Minutes from Spring Meeting
2.2 Approval of Minutes from July 16 Virtual Meeting

3. Old Business - Updates (8:30-8:45)
3.1 Report ANSI A11 Update – Jack
3.2 ACI 310 Decorative Concrete - Pratt
3.3 Void Forms Task Group - Cornell
3.4 Upcoming Session – Stivaros
4. **New Business (8:45-9:45)**

4.1 Peer Review of ACI 301 – Specification for Structural Concrete - Jack

4.2 Peer Review of ACI 304.3R – Heavyweight Concrete: Measuring, Mixing, Transporting and Placing - Jack

4.3 CRC Research Proposal – Non-Rigid Formwork System with Engineered Cementitious Composite – Loreto

4.4 ANSI A10.9 changes - Johnston

5. **Break (9:45-10:00)**

5.1 Community Impact - Hughes

6. **Design Specification for Formwork (10:00-12:00)**

6.1 Report from progress on virtual meetings and Oct 19th meeting

6.2 Prepare and ballot responses to comments

6.3 Assign task group leaders for sections

6.4 Develop plan for next sections to ballot –

7. **Adjournment (12:00)**

The next meetings will be Saturday, March 28, and Sunday, March 29, 2020, at the Hyatt Regency O’Hare in Chicago, IL.